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From the Editor's Desk



Phil Spence has been responsible for bringing numerous orchid species from Papua New Guinea into wider cultivation over the past few decades. Phil has made countless visits to New Guinea and is well acquainted with the country and its people. Even though New Guinea is our nearest neighbour, few have been there and even fewer lucky enough to see some of its native orchids in the wild. This is slowly changing, as Phil - along with Geoff Stocker - have started conducting orchidaceous tours of New Guinea to enable participants the opportunity of seeing first hand the cultural and botanical diversity on offer. One of the members of the most recent tour, Arnold Lockley, gives a first hand account of an unforgettable holiday.

We have just recently come back from a very pleasant visit to the North Island of New Zealand. I was invited and sponsored jointly by the Orchid Council of New Zealand and the Wanganui Orchid Society to firstly present a couple of illustrated lectures to the OCNZ Judging Panel, as well as addressing a number of North Island orchid clubs & societies during our visit. It was a superbly organised event, with a most impressive show dominated by cool-growing species and hybrid orchids. Grand Champion was the finest example of the New Guinea species *Dendrobium aurantiroseum* that I have ever seen, in both flower quality, size, presentation and floriferousness. A full illustrated report of this show appears in this issue. At the AGM, George Fuller MBE was unanimously endorsed as the Patron of the OCNZ, a deserving recognition to his contribution of New Zealand orchidology over many decades. George is one of the icons of the New Zealand orchid scene.

Well it had to happen (eventually) with many parts of Australia, especially along the East Coast finally receiving substantial rainfall. However the Hunter Valley and other regions had to contend with floodwaters to go from one extreme to another. This all seems to be part of the climatic cycle that Australia is a part of. This was followed by some of the coldest weather many parts of Australia and New Zealand have experienced for over 20 years. The temperature in our western Sydney shadehouse got down to minus 3°C, which is the coldest it has ever been. The outside temperature must have been a couple of degrees colder if the frost damage was any indication. Thankfully most of the damage to the orchids has been superficial, with burning of the leaves on some of the thin leaved genera and some buds and flowers damaged. Our weather appears to be getting more extreme with (in our case) the orchids under shadecloth having to cope with an annual temperature variance of 50°C, taking into account the 47°C they endured only six months ago last summer. It shows just how hardy some orchids are!

It is sad to report the passing of Ron Chalmers. Ron and Myra Chalmers were very long standing members of the Orchid Society of New South Wales and served a number of years on the OSNSW Management Committee. In fact Ron and Myra were joint Editor's of the *OSNSW Newsletter* at a time when cultural notes and other orchidaceous articles appeared as well as topical items, meeting details and plant benching results. They also helped stage AOC exhibits at numerous World Orchid Conferences. They both were instrumental in the formation of the Orchid Stamp Club International and were also involved with the International Orchid Badge Club. Our condolences go to Myra and family.

David Banks
Australian Orchid Review
davidbanks@veritel.com.au

OUR COVER



Dendrobium aurantiroseum
grown and exhibited by
Paddy and Gerli Fox of the
Taranaki Orchid Society was
the Grand Champion at the
June 2007 Orchid Council of
New Zealand Show.
Photo: David Banks



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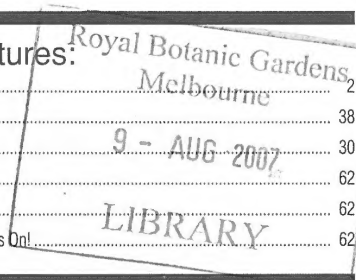
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Orchid Adventures

by Arnold



For four people from the tour; Peter Presland, Ian Nelson, Phil Spence and I our PNG adventure started at Brisbane airport. Even at 6.00am the excitement abounded, with booking in the ten boxes of *Cymbidium* flowers supplied by Barrita Orchids (for the PNG Orchid Show) plus our luggage was a mission in itself. Our guides for the trip were Phil Spence and Geoff Stocker who both have years of travel experience in New Guinea.

The flight just seemed to leave Brisbane and the next thing we were flying over Port Moresby. From the air the ground looked so dry and desolate but Phil assured us this was normal during the dry season. Alighting from the plane we seemed to step back in time as Port Moresby international airport is so small compared with our domestic terminals. The staff and people were much friendlier and went out of their way to help. We were soon on our way to the Holiday Inn to meet the rest of the group; Cary Polis, John Kitchner, Bev DeBrincat, Gary Yong Gee, Paul Carver,

Bulbophyllum reevei



Bulbophyllum fletcherianum & Bev DeBrincat

in New Guinea

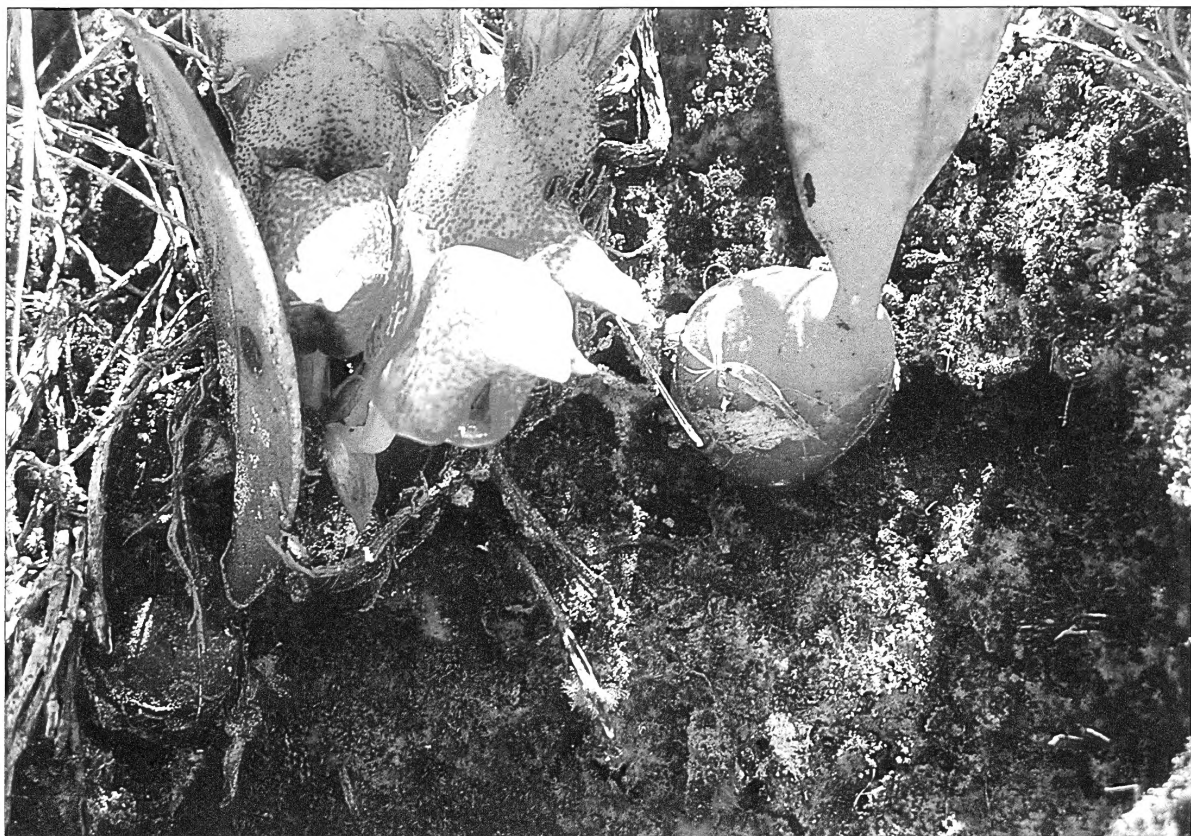
Lockrey

John Lee, and Geoff Stocker.

After booking in, we were then driven through Port Moresby to Parliament House where on the way we passed an array of different cultures, and where else would you see a young male with a two metre live crocodile over his shoulders! PNG's Parliament House is a stunning site to behold. Our group was then escorted to the Orchid Show (we were the first people, other than the staff to see this display and show) every one of us was simply blown away by the sight of all the magnificent orchids. One such display came from the highlands, in it were some exceptional *Dendrobium cuthbertsonii*, *Dendrobium vexillarius*, *Dendrobium finisterrae*, plus there appeared to be several unnamed species in this collection including an outstanding *Cadetia* species. Geoff explained to us that it wasn't unusual to see unknown species and plants that were wild-collected by the villagers in displays or their own gardens. Walking around all the orchids left us in awe and envy we also got to meet

Pedilochilus sp.





Above: *Bulbophyllum agastor*

Below: *Coelogyne fragrans*





Above: *Phreatia* sp.

Below: Large clump of *Coelogyne fragrans*

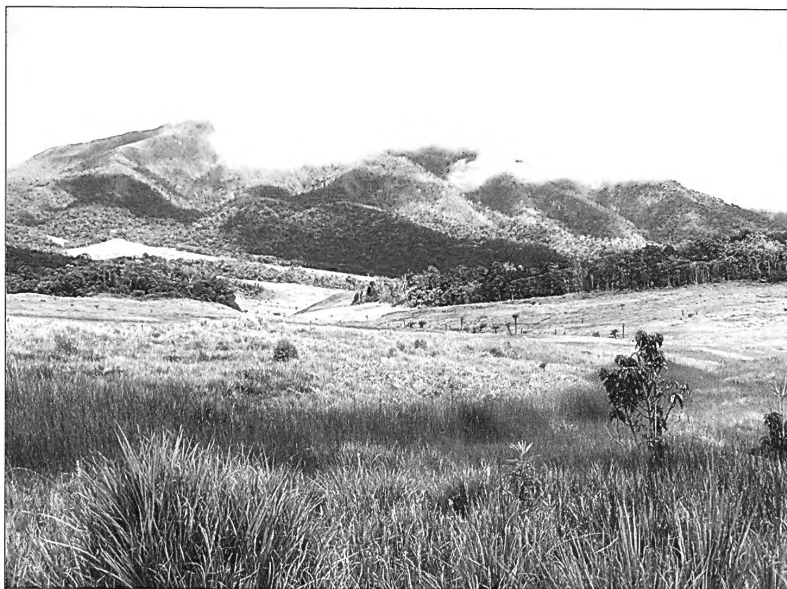




Above: Another variant of *Coelogyne fragrans*

Below: *Dendrochilum longifolium*





High mountains covered in mist

Steven Kami and Justin Tkatchenko, two of the senior organizing committee.

Leaving the show we were given a guided tour of some of the areas around Port Moresby, upon returning to the Holiday Inn. After we got cleaned up and changed we returned to the Parliament House for the presentations of the prizes to

all the winners, which was done by the Prime Minister Grand Chief Sir Michael Somare and the speaker of the Parliament Sir Rabbie Namaliu. During this time the group got to meet all the dignitaries plus we were wined and dined during the course of the night. Phil Spence was made a Life Member of the Papua New Guinea

Orchid Society for his life long work with PNG orchids. He was also presented with a lovely painting of *Dendrobium alexandrae*.

After a tasty smorgasbord breakfast we returned to the show where we got to meet vendors from all over PNG plus Singapore. Phil and Geoff booked us in to hear a brilliant talk on *Dendrobium* breeding by one of Singapore's outstanding orchid breeders, Mr. Yusof Alsagoff. The group then went on to see Justin Tkatchenko nursery, then a further sight-seeing trip around Port Moresby. We were all then invited to have dinner at Mr. Godfrey Seetos house the old German Embassy which overlooks the Port Moresby Harbour (what stunning views). This was also attended by the Prime Minister, plus a lot of other dignitaries and an outstanding night was had by all.

Up early Sunday morning to enjoy a tropical breakfast, then the group watched all the people going to do the Kakoda Track walk. It was then our turn to leave, off to the airport for our flight to Tari. During our tour we never once had to worry about our luggage or our seats on the flights, all this was done by Geoff and Phil. Leaving Moresby we flew from a dry area to one of lush rain forests and the odd snow covered mountain peaks. Tari airstrip is a gravel strip and is in very good condition. When we left our plane we were



Phaius aff. *tankervillei*



Above: *Spathoglottis papuana*

Below: *Epiblastus ornithioides*



Epiblastus ornithioides





Epiblastus ornithidioides

greeted by the whole town who turn up when any plane lands (no TV!) We were also greeted by a man wearing his traditional clothing and carrying a lap top computer, boarding a large 4x4 we headed off on a slow and bumpy drive to Ambua Lodge. Not very far up the road, our eagle-eyed guide (Phil) started pointing out all different species of orchids growing on the side of the road and in the road cuttings (*Spathoglottis*, *Dendrobium* and *Epiblastus*). Ambua Lodge was a sight to see with its impressive main guest house and all the accommodation huts. In the main guest house there was a large fire place, dinning area, lounge with a TV plus video player and plenty of videos on PNG. There was also a well stocked bar at reasonable prices. In our rooms all beds had an electric blanket on-suites, with hot showers, flushing toilets, and great views over the valley.

One of the local guides had his own orchid garden in the grounds which he was glad to show us around, most of the orchids we had not seen before including

some terrestrials. Early dinner with a few drinks then off to bed, leaving our room early the next day. Ian and I were lucky enough to see a male Ribbon Tailed Rifle bird doing his courting dance in the tree outside our door. After breakfast we left by 4x4 people-movers custom built for the alpine moss forests at Tari Gap near Mount Ambua. All these small moss forests have there own individual eco systems in-between these are the heath land bog areas.

On the way there we travelled on a typical PNG road (not sealed) where we were stopped during this trip by an enterprising local who asked for a few Kina to repair the road after we went through. We paid and he repaired. We arrived at the forest in lick lick time (short time). As we walked in the heath land bog area you had to be careful off your footing every where there was different *Spathoglottis* species growing, also you could see burnt tree ferns growing in the distance, as you got closer these were ablaze of colour with *Dendrobium cuthbertsonii*, *Dendrobium vexillarius* and *Cadetia* in profusion, all

growing in full sunlight. In the alpine forests there were many different species especially bulbophyllums (you couldn't



Spathoglottis papuana



Corybas sp.

get the smile off John's face) and we explored two more moss forests then headed back to the vehicle for a much needed lunch break (acclimatising to the altitude). After which we explored around the area finding orchids and other unusual plants everywhere.

On the return trip to Ambua Lodge, Geoff and Phil would tell the driver when to stop and out we would get and not one time were we disappointed in what we saw, we even found orchids growing on the blades of Kunai grass. Further along the road side one of the giants of the forest had fallen taking a lot of smaller trees and plants with it, we all searched the whole area for orchids that we could rescue to replant in the Ambua orchid garden. During this search Phil believes we found an unnamed *Dendrobium* Section *Latouria*. Arriving back at Ambua we had dinner and a few drinks and a good long talk to all the friendly staff.

Tuesday we left Ambua Lodge with sad hearts, leaving the great friends we had made in our short stay there. PNG elections were on so we were given an armed police escort to the town of Mindi but they were not needed. On our way to Mendi we found *Paphiopedilum striatum* but a large number off these lovely orchids had been pushed over the cliff to make way for the road, as it was being widening the rest were still growing on a steep cliff face so



Glossorhyncha papuana



Corybas subalpinus





Pterostylis papuana



Glossorhyncha papuana



Glomera aurea



Dendrobium subclausum

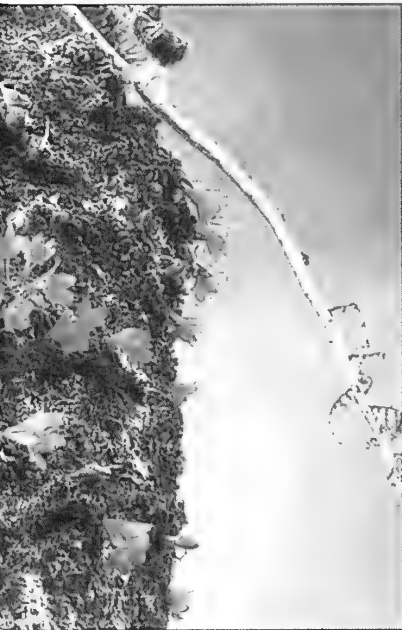
Dendrobium aurantiroseum



Dendrobium cuthbertsonii on treefern

two of the police scaled the cliffs and retrieved some seed capsules for us. Further along we found *Bulbophyllum agastor* growing and in full flower. Phil and one of the police also got seed capsules from these hundreds of plants, the





locals would come down to see what was going on and have a chat with us.

As we arrived at Kiburu Lodge the mist was slowly coming in over the huts and also rising from the river at the rear. A good meal a few drinks then off to bed. Up



Above: *Dendrobium vexillarius*

Left: *Dendrobium habbemense*

Below: *Dendrobium subacaule*





Gary Yong Gee watching Phil Spence preparing floral specimens

early the next day then into the shower only to turn on instant ice (somebody forgot to turn on the hot water), hot breakfast and on the road again we also found *Coelogyne asperata* plus numerous *Oberonia* species plus many large Ant

plants, again every time we stopped the locals would come and visit us. On our way to Kumul Lodge at Tamba Pass we stopped for a photo shoot when Bev spotted a local woman with a young child who had a bad sore on her leg. We applied some

antiseptic cream on the sore and gave the mother a small tube so everybody was happy. Arriving at the lodge the climb up the stairs looked daunting but the staff carried our luggage all the way to our rooms. You didn't notice the climb as every one kept on stopping to look at the numerous orchids that grew beside the stairs, the main guest house had a huge fire place, lounge area with books and magazines, bar, the dining room had a outside viewing area to see the rifle birds plus birds of paradise and other exotic species feeding there. At dusk the Kuss Kuss could be seen feeding (a large relative of the possum) scattered around the grounds were numerous other *Dendrobium* plants. One of the workers had his own orchid garden which he was proud to show us, where we got to see *Dendrobium habbemense* in flower, a spectacular species with its vivid red flowers. That night we were invited to go to a Sing Sing at the Wabag show in the Western Highlands Province. In the morning the lodge picked us up in a hire vehicle and we set off for the Sing Sing driving through small villages and towns. Here the people waved and smiled at us all along the road side with people dressed in traditional clothes and faces painted with ash. Many were cheering for their Governor who had been reinstated that day and was also driving to the Sing Sing.

Arriving at Wabag the town was chocked with people and it took us a fair while to get into the show ground. There we saw so many different tribes in their traditional dress performing tribal dances, there was traditional Enganes dressed in full length skirts made off rope, with faces painted jet black, other tribes had their faces painted with red and black dye, one dance troupe was made up of all topless women with beautifully woven skirts. The announcer told everybody that there were tourists visiting their Sing Sing. Nearby there was a number of stalls scattered all around the area, all to do with the peoples traditional way of life, and even an orchid nursery from the Wabag area. These people were very proud of their orchids and

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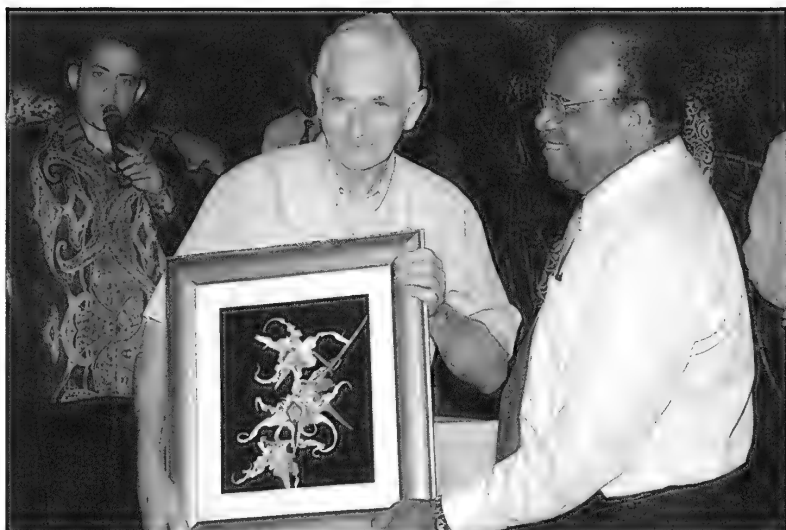
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rightly so. This Sing Sing went on for a further two days. We left Saturday morning for Betty's Lodge high up on the upper slopes of Mount Wilhelm, possibly one of the highest tourist accommodations in PNG. On the way we changed vehicles at the town of Koundiawa in the grounds of Koundiawa Lodge.

After a four-hour drive up one of the steepest roads I have been on, we made Betty's Lodge. Outside on the ground written in flower petals was "Welcome to Betty's Lodge" and all the workers, villagers and Betty were there to greet us. We off loaded everything and were shown to our rooms. Betty explained to us we would only be eating the freshest meals during our stay as everything was grown there and she also ran the only rainbow trout farm in the highlands. That night for dinner we all had fresh rainbow trout, vegetables, fruit and juice. What a meal! Sunday up early for the orchid church, we all hired walking sticks to help us up the Mountain. We started out together, but one intrepid photographer kept falling behind. We found so many species of flowering *Bulbophyllum* that could not be identified, it was obvious that large numbers were new to science. We also found many terrestrial species *Corybas* with jewel like leaves, a *Cryptostylis*, plus some greenhoods (*Pterostylis*). We also found many *Epibastus*, the related *Mediocalcar*, and *Dendrobium* species: a few notable ones were *Dendrobium rigidifolium*, *Dendrobium aurantioseum*, and *Dendrobium caliculimentum*. We rescued a large amount of plants from the ground that had fallen from the tree tops and returned with them back to the lodge. That night we were treated to a wedding ceremony traditional style put on by the village people. The next day we established an orchid garden for Betty in the grounds near her lodge and the village people in turn turned on a traditional Mu Mu (an in ground pit lined with leaves on a bed of hot stones). They killed a sheep, cooked it together with all their traditional vegetables. The villagers also turned on a market



Phil Spence being presented with orchid painting

day for us to buy goods from them, they did a roaring trade after this the men had a bow and arrow contest, closest to the bulls-eye wins 20 Kina then we had the women do the same thing this was very interesting as women are not allowed to touch weapons (heaven help the men if they do).

The next morning we set off down the mountain but a short while later it was dis-

covered that somebody had left the bow and arrows that we had bought at the markets so one vehicle drove back for them while the group decided to slowly walk on. After crossing one of the many Bailey bridges the rear wheel on our vehicle snapped off the studs and fell off but we were never in any danger. No jack, no tools, only man power from the village

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near us and Phil and his trusty Swiss Army knife, we were on our way in about two hours to Goroka. While we were stopped the village women took Bev up to their village for a feed and drink as it was apparently Mothers day there.

We stayed at the Bird of Paradise in Goroka, a fantastic hotel, next day we went to Mount Gahavasuka, a long slippery drive for a lot of disappointment as somebody had just about stripped out the orchids from PNGs alpine National Park, this used to be run by Cannon Cruttwell but we did manage to find a lot of orchids including *Bulbophyllum fonsflorum*. The next day we walked from the hotel to the airport and caught a flight back to Moresby.

Back at Moresby airport our driver with our consent checked in our luggage at the hotel while we travelled in the opposite direction to Variata National Park on the Sogeri Plateau where we were able to see up close the giant *Bulbophyllum fletcherianum*. What a sight to see these giant Bulbos growing in the wild. From there we went to Owens corner and to Bomana War Cemetery, this brought a tear to everyone's eyes to see the ages of the dead Australian and allied servicemen who were killed in that area during WW2. That night a good few drinks as the group was breaking up and going different ways, some going to Geoff Stocker's (near Atherton, FNQ)



Dendrobium subclausum in the forest

some to Sydney, Brisbane and Melbourne.

I highly recommended this tour to anybody who wants to go to an unspoiled orchid oasis. If you think you have to be extremely fit think again as one off our number had a hip replacement and coped very well. This land and its people are so far unspoiled by tourism so if you want to go on the next tour contact Phil Spence on 0408 994 696 or Geoff Stocker on (07)

4096 5362 or Niugini Holidays on (07) 40392251. To the people who feel that PNG is dangerous, at no time did I or the rest of the group ever feel in danger.

The photos used for this article were taken by various members of our tour party.

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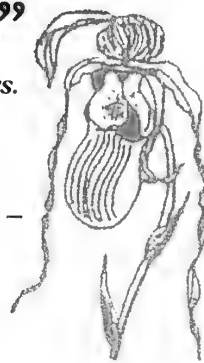
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Gary Backhouse describing how big the latest *Lepanthes* orchid was to Andreas from Lankester Botanical Garden and Renate Faast from Adelaide, in Bosque de Paz Cloud Forest Biological Reserve. Photo: Kelli Gowland.

International Orchid Conservation Congress III

Are our orchids safe?

With the support of the Australian Orchid Foundation (AOF), four graduate students (Kelli Gowland from Canberra and Magali Wright, Emily McQualter and Zoë Smith from Melbourne), set off in March 2007 for Costa Rica to attend the Third International Orchid Conservation Congress. After three days of travelling, the Melburnians flying via North America and the Canberran through South America, all four students arrived in San Jose, Costa Rica, exhausted but excited at what lay ahead.

Conference Sessions

The conference, held at the incredible Hotel Tryp Coribici in San Jose, commenced on the Monday morning with our attendance at the Australian Orchid Specialist Group (OSG) meeting. Key issues to further advance Australian orchid

conservation were identified and discussed by the Australian attendees, and a proposal to establish a national workshop on *Caladenia* was put forward.

The afternoon sessions saw the introduction of a new postage stamp series "Orchids of Costa Rica", while discussion papers focused on future directions for orchid conservation, with one of the major thrusts being the need to integrate science into the active management of orchid conservation.

The rest of the week's sessions centred around seven themes:

1. Are our orchids safe?
2. Geography of Conservation.
3. Economics of Conservation.
4. Conservation Policies and Botanical Gardens.
5. Conservation and Information Technologies.
6. New Technologies for Conservation

and DNA Barcoding.

7. Practical Orchid Conservation: Integrated Approaches.

Presentations were given by a host of international delegates including a well-represented Australian contingent. Papers ranged in content from detailed molecular studies to novelties in orchid literature. Some highlights included the development of a suitable DNA barcode for Mesoamerican (Central American) orchids, an evaluation of the utility of DNA barcoding for Australian orchids, and how to deal with hybrids when deciding on conservation management priorities; i.e. do hybrids warrant recognition as a separate taxon and therefore receive a higher conservation priority than if they were included in one of the parental taxa?

With a strong focus on practical applications of conservation research, remaining sessions included an excellent presen-



Students from Melbourne and Perth in Monteverde cloud forest. From left: Ryan Phillips, Magali Wright, Nigel Swartz, Emily McQualter, Belinda Newman. Photo: Zoë Smith

tation from Andrew Dille (President of the Victorian Group of the Australian Native Orchid Society) in which the importance of community involvement in orchid conservation was highlighted.

Conservation action plans for orchids in Costa Rica, Brazil, Bolivia, Colombia, Mexico and Madagascar were also presented.

The youngest IOCCIII delegate to date,

a 17 year old student from the Writhlington School Orchid Project (UK), outlined a project where high school students were directly involved in orchid conservation and propagation, the students travelling as far afield as the Brazilian Cloud forests to learn, and then inform fellow students, about orchid conservation. Marilyn Light (Chair of the OSG Education Group), demonstrated how orchid conservation enthusiasts can conduct their own research at low cost, when she outlined a 'backyard designed' experiment investigating the effects of people trampling on a terrestrial orchid environment in Canada.

A presentation from Brazilian researchers entitled "Rescuing *Cattleya granulosa* Lindley in the wild" showed that the AOF and ANOS are not alone in their quest to protect and rescue native orchids in urban areas. In contrast to this, a discussion of 'weedy' orchids (such as *Phaius tancarvilleae* and *Dendrobium crumenatum*) by Jim Ackerman (University of Puerto Rico) showed that the global compendium of weeds now lists over 90 species of orchids as 'weeds'!

A welcome break in the Conference proceedings allowed for a rewarding field trip to Lankester Botanical Gardens and the Bosque de Paz Cloud Forest Biological Reserve. Conference delegates were treated to orchids growing naturally (and a few even flowering) while for the Australians it was a novelty to see bromeliad-covered Casuarinas and stands of Eucalypts in the coffee plantations!

The Australian Contingent

We regularly received praise on behalf of all of the Australian representatives at the conference for the extensive research being conducted 'down under', and for being at the forefront of orchid conservation research.

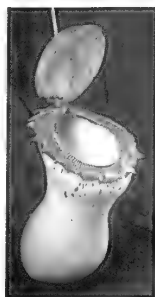
Some of the insightful presentations from Australian representatives included: "A study of orchid biogeography and rarity in southwest Australia" (Ryan Phillips, Kings Park and Botanic Garden, and



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University of Western Australia); "A national assessment of threatened orchids in Australia" (Gary Backhouse, Department of Sustainability and Environment, Victoria); "Integrated conservation of terrestrial orchids" (Nigel Swartz, Kings Park and Botanic Garden, and University of Western Australia); "The use of orchids as indicators of vegetation condition" (Belinda Newman, Kings Park and Botanic Garden, and Murdoch University); "The effects of habitat fragmentation" (Lachlan Farrington, The University of Adelaide); and "Investigations into processes leading to the decline of South Australia's *Caladenia* species" (Renate Faast, The University of Adelaide).

The papers, talks and posters presented by the four of us were all well received. Kelli Gowland's presentation entitled "Understanding the distribution of three species of epiphytic orchids in temperate Australian rainforest by investigation of their host and fungal associates", drew a large audience for being one of the few detailed studies on epiphytic orchids. Kelli discovered three distinct distribution patterns amongst her three study species of *Sarcochilus hillii*, *S. olivaceus* and *Plectorrhiza tridentata*, despite similarity in form and overlap in habitat.

Magali Wright's presentation, entitled "Site amelioration for direct seeding of *Caladenia tentaculata* improves seedling recruitment and survival in natural habitat", showed novel results regarding practical orchid conservation and answered important questions about seed germination requirements in situ.

Magali's paper was appropriately followed by Zoë Smith's presentation "Experimental reintroduction of the threatened terrestrial orchid *Diuris fragrantissima*" (Sunshine *Diuris*). Zoë discussed the survival of reintroduced orchids under environmental conditions such as soil amelioration, fungal support inoculum and different planting seasons.

Emily McQualter presented a poster

introducing her Masters research, entitled "Scanning Electron Microscopy (SEM) and Genetic Study of mycorrhizal fungi isolated from the Australian terrestrial orchid *Prasophyllum*" (Leek Orchid). In a short space of time, Emily has managed to isolate, genetically identify and photograph with electron microscopy, fungi associated with the genus *Prasophyllum* in Victoria.

A combined-author poster was also prepared by Magali Wright to highlight the research being conducted at the Royal Botanic Gardens Melbourne, entitled "Symbiotic Germination of Threatened Australian Terrestrial Orchids and the Effect of Nursery Potting Media on Seedling Survival". [Extended abstracts of the papers presented at the conference can be found in the journal of the Lankester Botanical Gardens, *Lankesteriana*, Volume 7 (1,2), 2007].

Australian Branch of Orchid Specialist Group Education Committee

In addition to the outstanding presentations given at the conference, meetings were held with Marilyn Light (president of the OSG Education Committee) to form an Australian branch of the OSG Education Committee. Zoë Smith, Chair of the inaugural OSG Early Career Committee, outlined the role of this new group to the

Conference, namely to act as a voice for students and conservation enthusiasts especially in the early stages of their careers.

The closing ceremony included a colourful cultural performance, involving fantastic costumes, dancing and loud cries, and a social gala dinner that was much like a giant game of musical chairs. Everybody talked to everybody and all had a great time. Future directions for orchid conservation were discussed, acknowledgements were made, and the reigns were handed over to China to host the IOCCIV in 2009.

Where to from here?

New conservation directions include the development of orchid seed banks, habitat restoration, identification of orchid threatening processes, and in particular informing the public of the importance of orchid conservation. Integrating science and management was a topic brought up directly or indirectly throughout the conference, and appears to be the way forward for orchid conservation. In Australia, an important step forward will be the development of a national action plan for the assessment of orchid conservation status, to unify the criteria for conservation adopted between each state and to ensure that species are protected under legislation.

So, are our orchids safe 'down under'? While there is still a wealth of research to be conducted on these mysterious plants, it is the generous support of bodies, such as the Australian Orchid Foundation, that has ensured the continuation of orchid research in Australia. The international view voiced at the Conference is that Australia is at the forefront of applied orchid conservation research.

Kelli Gowland, Magali Wright, Emily McQualter and Zoë Smith sincerely thank the AOF for their on-going support in providing funding for orchid research and in sponsoring their attendance at the IOCCIII.

Zoë Smith

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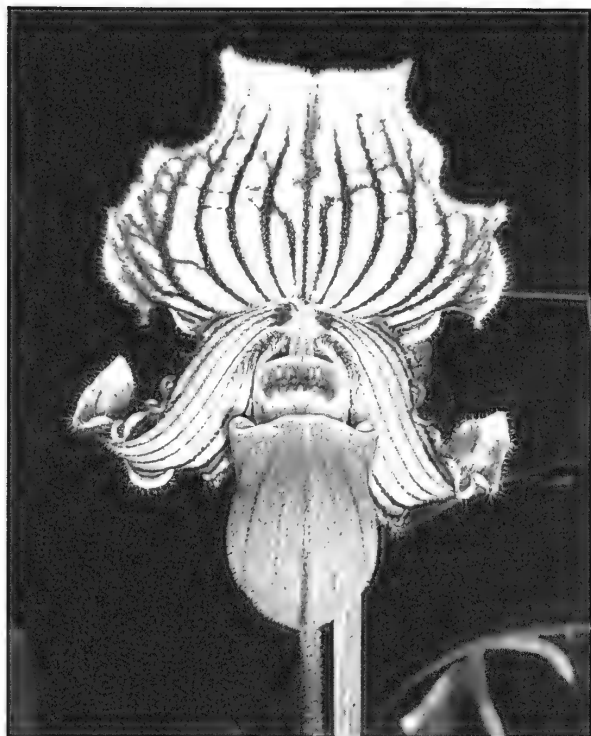
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2007 Orchid Council of New Zealand and National Judging Seminar at Ruapehu

Text and photos by
David Banks



Paphiopedilum fairrieianum is a very distinctive slipper orchid from north-eastern India with no close relatives. It caused a sensation in England when first bloomed in cultivation in 1857. It was so rare that almost 50 years later a reward of one thousand pounds was offered for its rediscovery.

The volcano Mt Ngauruhoe at 2291m is the second highest mountain on the North Island of New Zealand, last active in 1975. Its neighbour Mt Ruapehu, which last erupted in 1997, is the highest peak at 2797m. We visited the Tongariro National Park the day after a blizzard swept the landscape dumping record amounts of snow.

On the weekend of 23-24 June 2007, the Wanganui Orchid Society – on the occasion of their 40th anniversary – hosted the annual Orchid Council of New Zealand (OCNZ) Show, Annual General Meeting and National Judging Seminar.

The results of the AGM appear below, with George Fuller MBE being installed as the Patron of the OCNZ. George has been growing and photographing orchids for over 60 years, having worked at Kew Gardens in his younger days. He is a thorough gentleman with so much knowledge, enthusiasm and energy and is essentially one of New Zealand's national treasures. George has also been at the forefront of *Disa* and *Masdevallia* breeding. This honour is richly deserved to one of the icons of the orchid world.

OCNZ Office Bearers 2007/08

Patron: George Fuller MBE

President: Joy Wray (Taranaki)

Vice Presidents: Roy Neale (Auckland) and Philip Norton (Marlborough)

Secretary: Clive Perry (Taranaki)

Treasurer: Grahame Hill (Taranaki)

Committee: Ross McDonald (Manawatu-Wanganui), Graham Letts (Otago), Cliff Coles (Taranaki), Bill Liddy (Hawkes Bay) and Dennis Chuah (Auckland)

It was a testament to the Wanganui Orchid Society, and their President Ross MacDonald QSM, who with only 35 members were able to facilitate such an impressive show and attract over 150 guests to the Saturday evening dinner. There were numerous displays from throughout New Zealand and a number of com-



Cymbidium kanran is a rarely seen and variable "Oriental" species from Taiwan, China, Korea and Japan. The plant had very long and fine grassy foliage with an upright inflorescence with numerous attractive starry blooms.



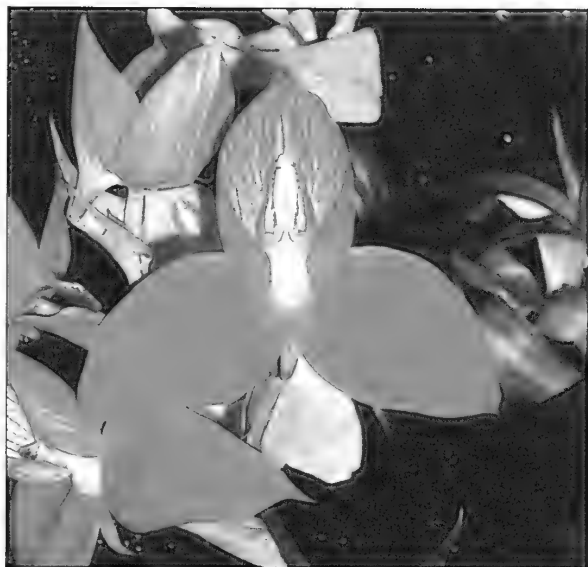
Cymbidium Eastern Venus is a unique hybrid between one of the "Oriental" single-flowered species (*C. goeringii*) and a modern complex standard pure-colour (*C. Sleeping Beauty*). I found this hybrid (registered in 2003) most attractive, with much potential as a pot plant due to its long lasting clear coloured blooms and multispiking habit. This plant was grown by Grahame Leafberg of Auckland who purchased a seedling from Russell Hutton (being an imported flask).



Paphiopedilum helenae is a very recent discovery (1995) from south-west China and north Vietnam. It is closely related to *P. barbigerum*. This plant is from a batch of seedlings raised by Keith Goodwin of Rotorua, who has propagated numerous species of quality slipper orchids being released as sturdy plants (often flowering size) at very reasonable prices.



Odontonia Santos is quite a rare hybrid if the plant actually matches its tag! It looks like one of the Brazilian *Miltonia* hybrids, yet its pedigree indicates that *Rossioglossum grande* (syn. *Odontoglossum grande*) is one of the grandparents. Interesting there is also a *Miltonia Santos* registered.



Disa uniflora 'Half On'. The "Pride of Table Mountain" (it is found on the tableland behind Cape Town, South Africa), these brightly coloured blooms are pollinated by butterflies. Note the very tiny ribbon-like lip, whereas most orchids have sophisticated and highly specialised labellums.

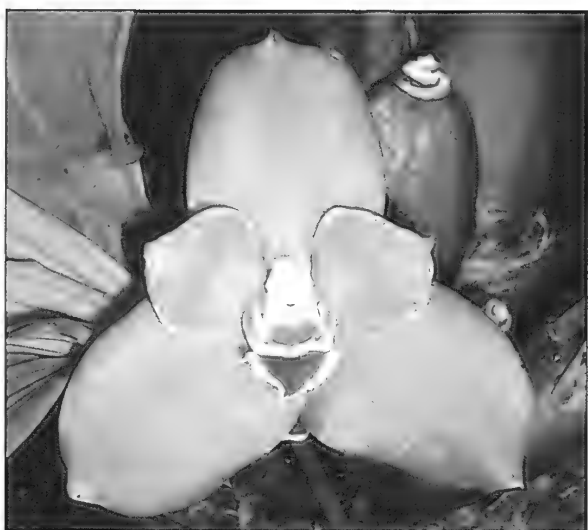


Hamelwellsara (*Zygopetalum* Alan Greatwood x *Hamelwellsara* Margaret) is a most unusual and compact growing unregistered hybrid that is the mix of five related genera.

mercial growers selling their product. The business community got behind this event, with full front page coverage in the local newspaper, the *Wanganui Chronicle*.

I was invited and sponsored jointly by the OCNZ and Wanganui Orchid Society to present a couple of PowerPoint Presentations during the afternoon judging sessions, be the after-dinner speaker at the official dinner and lecture at a number of North Island orchid clubs and societies over the following week.

During the weekend afternoon sessions I spoke to the OCNZ Judges on two very different topics. I appreciated the opportunity to address the judges at the invitation of the Registrar and Chairperson of the Committee on Awards – Margaret Lomas, who handled the Saturday morning judging (and later the Award Judging) in a most friendly, constructive and professional manner. The first of these talks related to the way plants were presented and assessed for judging. The emphasis was on pendulous and novelty Cymbidiums in this case, with complex Paphiopedilums and harlequin *Phalaenopsis* also discussed. There was much



Anglocaste Paul Gripp 'Brenda' AM/OCNZ. This is an awarded example of the hybrid between *Lycaste* Auburn and *Anglocaste* Olympus (with *Anguloa clowesii* in its background). It was named in honour of the founder of the Santa Barbara Orchid Estate in California.



Disa uniflora (left) & hybrids, all grown and exhibited by George Fuller of New Plymouth. These South African terrestrials are generally thought of as being summer blooming, however recent selective breeding has extended the flowering period.



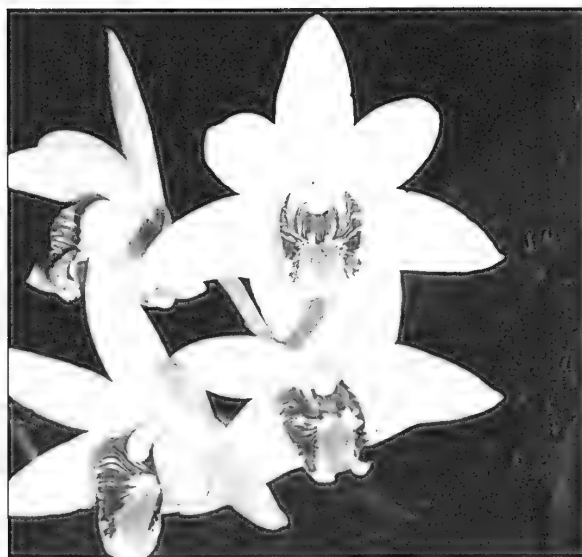
Dendrobium Paradise Gerli is a 1985 hybrid between *D. Paradise Dream* (*victoriae-reginae* x *mohlianum*) and *D. subclausum*, combining species from the Philippines, Vanuatu and New Guinea. It was made by Ron Maunder of Paradise Orchids NZ, who has created many fine hybrids using *D. mohlianum*.



Dracuvallia Ngaris Gems is a cool-growing primary intergeneric hybrid between *Masdevallia uniflora* and *Dracula chestertonii*. Grown and created by George Fuller, who registered it in 1999.



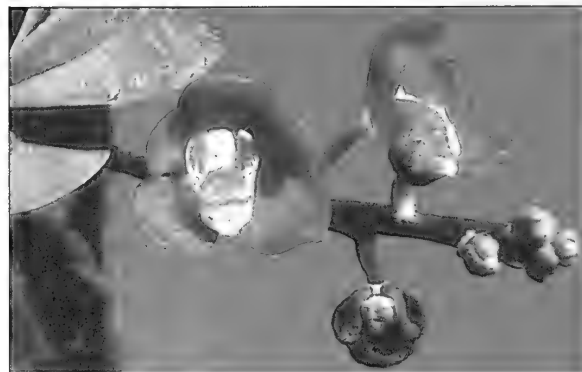
Dendrobium finetianum is a very rare species from New Caledonia. This is a particularly dark flowered example, as it generally has yellowish-green blooms with some fine pepper spotting.



Eria coronaria is a delightful species found from northern India through to Indochina. This is one of the finest members of this large Southeast Asian genus. The flowers somewhat resemble hybrids derived from the Australian species *Dendrobium kingianum*.



Dendrobium Sharpies Quest '141' is a fine example of the "hot/cold" style Australian *Dendrobium* hybrids that have *D. bigibbum* in their background.



Sarcophilus (Elise x Nicky) is an unregistered hybrid made by David Butler of Green Vista Orchids. The saturation of colour is outstanding on this first-flowered seedling grown by Jenny Walsh of New Plymouth.



Dockrillia fuliginosa x *Dendrobium* Golden Fleck was another of the interesting plants from the collection of Grahame Leafberg. It was an old plant that has flowered most profusely. One drawback on this style of hybrid is the often untidy growth habit.

Below: *Dockrillia fuliginosa* is one of the pencil orchids from New Guinea. This orchid has a lot to answer for! For many years known unfortunately as "*Dendrobium teretifolium*" "Black Pam" – a name still seen in collections and on tags. Many of the colourful registered hybrids claiming "*teretifolium*" parentage actually have *fuliginosa* as the parent. This has resulted in a plethora of incorrectly tagged, named and interpreted hybrids, sadly even today many nurserymen and enthusiasts simply do not know.



Doritis pulcherrima var. *coerulea* is an unusual colour form for this Thai species that has been used extensively in *Phalaenopsis* breeding. This plant was later awarded a HCC/OCNZ.

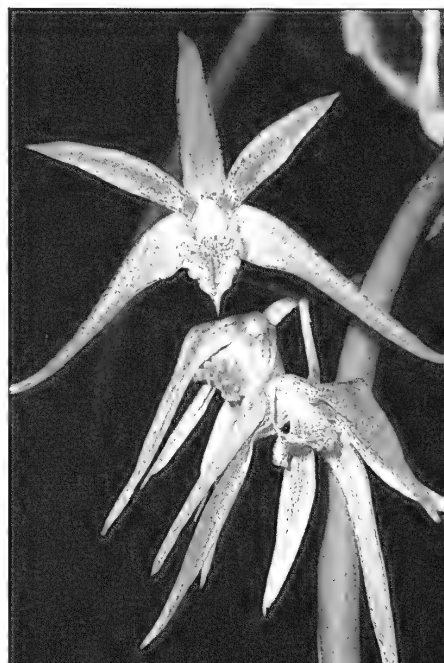


Dendrobium aurantiroseum grown and exhibited by Paddy & Gerli Fox of the Taranaki Orchid Society was the Grand Champion of the Show and also received an AM/OCNZ. This is an outstanding example of this species (usually the blooms are somewhat cup-shaped) and superbly flowered. It's a highland species from New Guinea, being a member of the Section *Pedilonum*.

debate on the value of awards for plants in relation to their potential success as sales plants for their owners as hobby or commercial growers. My second talk was an illustrated talk on *Coelogyne* species and hybrids with emphasis on the large number of incorrectly named and benched plants (in both Australia and New Zealand) in this popular genus. A printed and illustrated version of this lecture will appear in the OCNZ Yearbook *Orchids* 2008.

Leigh Leaity from Auckland introduced a well researched presentation to the judges on "Asian or Oriental" Cymbidiums (essentially those seldom seen species from China and Japan) which are starting to appear in the North Island in quite large numbers, due to the number of Asian immigrants interested in importing these plants. They are a different style of flower and

Dockrillia fuliginosa x *Dendrobium tetragonum* is a hybrid originally made by Darryl Smedley, but never registered. This Jenny Walsh remake, has the same unusual (and untidy) growth habit with these delightful colourful and starry blooms. So who's going to name it?





Phalaenopsis gigantea is a tropical lowland species native to north Borneo. The name "*gigantea*" refers to the plant habit, not the blooms. Definitely one for the warm glasshouse, it has a reputation for being difficult in cultivation.



Maxillaria picta is a delightfully fragrant species from Brazil. Some of the finer forms of this species have widely opened blooms whereas this clone was a typical example. This plant was superbly grown, without a mark on the healthy leaves and literally covered with flowers, being rewarded with a Cultural Certificate from OCNZ.



Laelia albida is a species from Mexico that varies in colour from pure white through various pink tones. This somewhat bicoloured clone was grown by species enthusiast Wilma Fitzgibbons who is President of the Bay of Plenty Orchid Society.



Pleione Tarawera 'Winter Solstice' is an impressive deciduous hybrid (named after one of the North Islands volcanoes) which always blooms mid-winter. *Pleione* is related to *Coelogyne* and there should be potential for hybrids between these genera.

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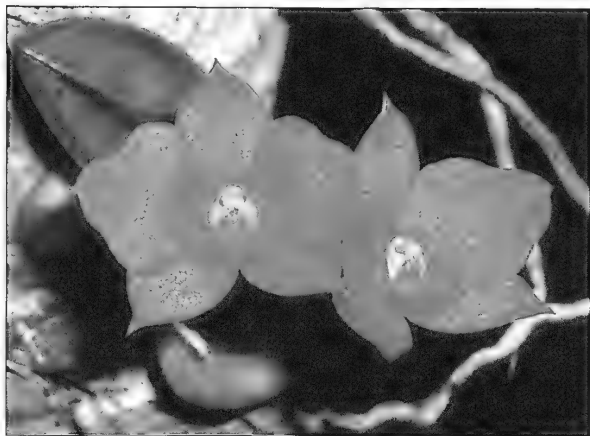
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Trichoceros antennifer is a miniature high altitude South American species related to the genus *Telipogon*. It appears that these orchids are fly pollinated if the mimicry at the centre of the flower is any indication.



Sophronitis cernua is one of the warmer growing members of this colourful Brazilian genus. It rarely does well potted and is grown and displayed at its best when grown on vertical slabs of virgin cork bark, even though hard treefern is another good host.



Dendrobium (aemulum x monophyllum) is an unregistered Phil Spence hybrid that I am told blooms intermittently throughout the year. It has a robust growth habit and is an attractive plant even out of flower.



Sophronitis Orbitor is a primary hybrid between *S. coccinea* and *S. cernua*, originally made and registered in 1984 by Werner Deisel at the time he was working at Wondabah Orchids at Carlingford.

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Laelia furfuracea is a seldom seen Mexican species, which must be given a rest period throughout winter. This plant was grown by Natalie and Brian Simmonds of Tauranga.

some interesting hybrids have already been made with some of these.

The OCNZ Yearbook – *Orchids 2007* – was also launched on the weekend. This is an excellent 98-page publication with numerous cultural articles and other papers of interest. It also has quality photographs of all of the awards granted over the past 12 months by the three awarding bodies, the Orchid Council of New Zealand (OCNZ), the New Zealand Orchid Society (NZOS) and the New Zealand Branch of the Cymbidium Society of America (CSA). The photographs are shown with a commentary on the awarded plants as well as all the necessary statistics. Hopefully Orchidaceous Books in Australia will stock it in Australia, if not it can be obtained from Joy Wray, 7 Ash Place, New Plymouth (or email Joy at joywray@xtra.co.nz). The price is listed at NZ\$10 – not including postage. I certainly recommend readers (and especially judges) to obtain a copy.

The Saturday night dinner was an outstanding success with excellent food and company, and as mentioned earlier over 150 in attendance. I donated a copy of the

now out-of-print *Orchids of Australia* (by John Riley and myself) to the host society, which was auctioned immediately – going for an impressive NZ\$380.

There were many outstanding plants at the show, and I also got to see some other fine plants in private collections and at the various society meetings that we attended throughout the North Island. A snapshot of some of these plants appears within these notes.

I wish to take this opportunity of thanking The Orchid Council of New Zealand and in particular Cliff & Ruth Coles, Joy Wray, Margaret & Wally Lomas, Ross MacDonald, Jenny & Bernie Walsh, Natalie & Brian Simmonds and Lee & Roy Neale for making this excursion to New Zealand such an enjoyable and pleasurable experience for myself, wife Louanne and our daughters Rebekah and Rachael. New Zealand is such a wonderful, picturesque and friendly country where we have made so many friends and we look forward to our next visit.

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SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
New South Wales				
3 August	10.00am-6.00pm	Winter/Spring	Manly Warringah OS	Reef Room, Dee Why RSL Club
4 August	10.00am-7.00pm		"Orchids by the Sea"	932 Pittwater Road, Dee Why
5 August	10.00am-4.00pm		Show and Sale	
8-11 August	Shopping Centre Hours	Autumn	Illawarra District OS	Gateway Shopping Centre
			Autumn Display	Crown Street, Wollongong
10 August	10.00am-5.00pm	Winter	Batemans Bay Orc/Foliage Soc	Community Centre
11 August	9.00am-1.00pm		Winter Show	Batemans Bay
10-12 August	9.00am-5.00pm	Winter	2007 National Orchid	Dural Recreation Centre
			Extravaganza	25a Kenthurst Road, Dural Round Corner
17-18 August	9.00am-5.00pm	Winter	Sapphire Coast Orchid Club	Twyford Hall
19 August	9.00am-1.00pm		Winter Show	Market Street, Merimbula
17-18 August	9.00am-4.00pm	Winter	2007 St Ives Orchid Fair	St Ives Showground
19 August	9.00am-3.00pm			Mona Vale Road, St Ives
18 August	10.00am-4.30pm	Spring	Belinger Valley OS	Uniting Church Hall
			Annual Show	Belingen
23-26 August	Club Hours	Spring	Macleay Valley OS	Kempsey Macleay RSL Club
			Early Spring Show	York Lane, Macleay
23-26 August	Shopping Centre Hours	Winter	Western Suburbs OS	Ashfield Mall
			Winter Show	Ashfield
24-25 August	9.00am-5.00pm	Spring	Eurobodalla Orchid Club	Sport & Leisure Centre
26 August	9.00am-12.30pm		Spring Show	Blue Water Drive, Narooma
26 August-1 Sept	9.00am-5.30pm	Spring	Fairfield District OS	Stockland Wetherill Park
30 August	9.00am-9.30pm		Spring Show	Polding Street, Wetherill Park
28 August-1 September	Shopping Centre Hours	Spring	Boolaroo OS	Belmont Citi Centre
			Spring Show	Belmont
29 August-1 September	Shopping Centre Hours	Spring	Cumberland Orchid Circle	Winston Hills Mall
			Spring Show	Caroline Chisholm Drive, Winston Hills
30 August	9.00am-4.00pm	Spring	Nambucca Valley OS	Nambucca Heads Entertainment Centre
31 August	9.00am-4.00pm		Spring Orchid Show	Ridge Street, Nambucca Heads
1 September	9.00am-3.00pm			
30 August-1 September	Shopping Centre Hours	Spring	Hawkesbury & District OS	Richmond Marketplace
				March Street, Richmond
30 August-2 September	Shopping Centre Hours	Spring	Alstonville OS	Alstonville Plaza Shopping Centre
				Alstonville
31 August-1 September	Shopping Centre Hours	Winter	Albury-Wodonga District OC	Centro Lavington
			Winter Display	Griffith Road, Lavington
3-7 September	Shopping Centre Hours	Spring	Eastwood & District OS	Macquarie Shopping Square
			Spring Show	Talevera Road, North Ryde
5-8 September	Shopping Centre Hours	Spring	Newcastle OS	Stockland Jesmond Shopping Centre
			Spring Show	Blue Gum Road, Jesmond
6-7 September	Shopping Centre Hours	Winter	Maitland & Coalfields Dist OS	Raymond Terrace Market Place
8 September	Close 3.00pm		Winter Show	
6-9 September	Shopping Centre Hours	Spring	Campbelltown & District OS	McArthur Shopping Square
				Kellicar Road, Campbelltown
6-9 September	Shopping Centre Hours	Spring	Ballina & District OS	Ballina Fair Shopping Centre
				Cnr Fox & Kerr Streets, Ballina
6-8 September	9.00am-5.00pm	Spring	Sutherland Shire OS	Swanes Nursery
9 September	9.00am-3.30pm		55th Spring Extravaganza	80 Port Hacking Road, Sylvania
7 September	10.00am-5.00pm	Spring	Byron District OS	Mullumbimby Ex-Services Club
8 September	10.00am-4.00pm		Annual Show	Dalley Street, Mullumbimby
7-9 September	10.00am-5.00pm	Spring	Tweed District OS	Jessie McMillan Hall
			'Speed On Tweed' Show	Wollumbin Street, Murwillumbah
8 September	10.00am-3.30pm	Spring	Panania-East Hills OS	Senior Citizen's Hall
			Spring Show	Anderson Avenue, Panania
8 September	9.00am-5.00pm	Spring	Blue Mountains & Penrith Dist.	The Melrose Hall
9 September	9.00am-4.00pm		Spring Show	Cnr Park Street & Great Western Highway, Emu Plains
10-11 September	8.30am-9.00pm	Spring	Manning River OS	Manning Mall Shopping Centre
12 September	8.30am-1.00pm		Spring Show	Manning Street, Taree
12-13 September-14 September	Shopping Centre Hours	Spring	City of Lismore OS	Lismore Central Shopping Centre
	Close 2.00pm		Spring Show	Carrington Street, Lismore
12-16 September	Shopping Centre Hours	Spring	Fivedock RSL OS	Rhodes Shopping Centre
			Spring Show	Rhodes
13-15 September	Shopping Centre Hours	Spring	Coffs Harbour OS	Park Beach Plaza
	Half Day Saturday		Spring Show	Coffs Harbour
13-15 September	9.00am-5.00pm	Spring	North Shore OS	Willoughby Civic Centre
16 September	9.00am-4.00pm		Spring Show	Victoria Avenue, Chatswood
14 September	11.00am-4.00pm	Spring	Shoalhaven OS	Presbyterian Church Hall
15 September	9.00am-4.00pm		Spring Show	Kinghorn Street, Nowra
14 September	10.00am-5.00pm	Spring	Batemans Bay Orc/Foliage Soc	Community Centre
15 September	9.00am-4.00pm		Spring Show	Batemans Bay

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
14 September	11.00am-4.00pm	Spring	Woodburn OS	Woodburn Memorial Hall
15 September	9.00am-4.00pm		Annual Spring Show	Pacific Highway, Woodburn
16 September	9.00am-3.00pm			
15 September	10.00am-4.00pm	Spring	Camden Haven OS	Laurieton United Servicemen's Club
16 September	10.00am-3.00pm			Seymour Street, Laurieton
20-22 September	Shopping Centre Hours (Close 4.00pm Saturday)	Spring	Manly Warringah OS Spring Show	Warriwood Shopping Centre Jacksons Road, Warriwood
20-22 September	Shopping Centre Hours	Spring	Grafton District OS Grafton Spring Orchid Show	Grafton Shoppingworld Grafton
20-21 September	9.00am-5.00pm	Spring	Casino & District OS	Presbyterian Hall
22 September	8.30am-1.00pm		Spring Orchid Show	Hickey Street, Casino (Fire Station street)
22-23 September	9.00am-3.00pm	Spring	Illawarra District OS Winter Show	Legacy House 96 Market Street, Wollongong
22 September- 23 September	11.00am-5.00pm 9.00am-4.00pm	Spring	Wagga Wagga OS Annual Show	Glenfield Neighbourhood Centre Glenfield Park
28-29 September	10.00am-7.00pm	Spring	Maclean District OS Maclean Orchid Show	Maclean Bowling Club Maclean
29-30 September	9.00am-5.00pm	Spring	Sapphire Coast Orchid Club Orchid Heaven 007	Bega Town Hall Zingel Place, Bega
6 October	9.00am-2.00pm	Spring	Southern Riverina OS Spring Show	Anglican Church Hall Princes Highway, Milton
6 October	9.00am-4.00pm	Spring	Port Macquarie Orc/Brom Soc.	Port Macquarie High School
7 October	9.00am-3.00pm		'Orchids by the Sea'	Owen Street, Port Macquarie
6 October	9.00am-5.00pm	Spring	Albury-Wodonga & District OC	Mirambeena Centre
7 October	9.00am-4.00pm		Inland Championship Orc Show	19 Martha Mews, Lavington
10-13 October	Shopping Centre Hours	Spring	Newcastle OS Late Spring Show	Stockland Glendale Shopping Centre Lake Road, Glendale
11-14 October	Club Hours	Spring	Macleay Valley OS Late Spring Show	Kempsey Macleay RSL Club York Lane, Macleay
12-13 October	9.00am-4.00pm	Spring	Orchid Society of NSW	Sharkies Leagues Club
14 October	9.00am-3.00pm		Southern Orchid Spectacular	Captain Cook Drive, Cronulla
18-20 October	Shopping Centre Hours	Spring	Central Coast & Lakes OS	Lakeside Plaza Shopping Centre Lakeside Plaza, The Entrance
18-21 October	Shopping Centre Hours	Spring	Western Suburbs OS Spring Show	Rockdale Plaza Rockdale
25-27 October	Shopping Centre Hours	Spring	Northern Rivers OSpecS Spring Show	Lismore Shopping Square Cnr Brewster & Uralba Streets, Lismore
2 November	9.00am-5.00pm	Spring	Sapphire Coast Orchid Club	Twyford Hall
3 November	9.00am-3.00pm		Australian Native Orchid Show	Market Street, Merimbula
3-4 November	10.00am-5.00pm	Spring	Tweed District OS Gold Coast-Tweed Orchid Fair	Tweed Heads Civic Centre Tweed Heads

ACT

22 September	11.00am-5.00pm	Spring	Orchid Society of Canberra	St Johns Church Constitution Avenue, Reid, Canberra
23 September	Noon-4.00pm			

Queensland

3-5 August	9.00am-5.00pm	Winter	Toowoomba Orchid Society	Walshs Seeds & Garden Centre 881 Ruthven Street, Toowoomba
3-6 August	9.00am-4.00pm	Winter	Darling Downs Orchid Society Combined Winter Show	Walshs Seeds & Garden Centre Ruthven Street, Toowoomba
9-11 August	Shopping Centre Hours	Winter	Southport & Districts OS	Centro Southport
10-12 August	9.00am-5.00pm 9.00am-2.00pm	Winter	Maroochydore OS Winter Show	Community Centre Millwell Road, Maroochydore
17-19 August	9.00am-4.00pm	Spring	Queensland OS Spring Show	Auditorium Botanic Gardens, Mt Coot-tha, Brisbane
23-25 August	Shopping Centre Hours	Winter	Pine Rivers OS PROS Winter Show	Deception Bay Shopping Centre Deception Bay Road
24 August	8.30am-5.00pm	Spring	Noosa Dist Orc & Foliage Soc	RSL Hall
25 August	8.30am-3.00pm		Noosa Spring Show	Main Street, Cooroy
25 August	8.30am-4.00pm	Winter	Logan & District OS	Logan Central Community Centre
26 August	8.30am-3.00pm		Annual Winter Show	Cnr Jacaranda Avenue & Wembly Road, Woodridge
25 August	8.30am-4.00pm	Spring	North Brisbane OS	The Auditorium
26 August	9.00am-4.00pm		2007 Annual Spring Show	Brisbane Botanic Gardens, Mount Coot-tha
29-31 August 1 September	Shopping Centre Hours	Spring	Redcliffe District OS Spring Show	Peninsular Fair Kippa-Ring
29 August- 2 September	9.00am-5.00pm	Spring	Australasian Native OS 8th ANOS Conference	Riverglen Conference Centre 70 Kate Street, Indooroopilly
30-31 August 1 September	9.00am-9.00pm	Spring	Gold Coast OS Spring Show	Parklands Showgrounds Southport, Gold Coast, Queensland
30-31 August 1 September	Shopping Centre Hours	Spring	Townsville & District Orchid & Allied Plants	Castletown Shopping Centre Hyde Park, Townsville

SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
31 August 1 September	8.30am-5.00pm 8.30am-2.30pm	Spring	Childers & Isis District OS Spring Show	Childers Cultural Centre Churchill Street, Childers
31 August 1 September	9.00am-5.00pm 9.00am-2.30pm	Spring	Nambour OS Spring Show	Uniting Church Hall 37 Coronation Avenue, Nambour
1 September 2 September	8.30am-4.00pm 9.00am-3.00pm	Spring	Beaudesert Dist Orc & Foliage Society – Spring Show	Canungra School of Arts 2 Pine Street, Canungra
1-2 September	8.00am-4.00pm	Spring	West Brisbane OS WBOS Charity Show	Brisbane Botanic Gardens Auditorium Mt Coot-tha
3-7 September	Library Hours	Spring	Wynnum Manly District OS	Wynnum Library
8-9 September	9.00am-4.00pm	Spring	Orchid Species Society	Auditorium Botanic Gardens, Mt Coot-tha
13-14 September 15 September	9.00am-9.00pm 8.00am-3.00pm	Spring	Sunshine Coast OS – Caloundra Spring Orchid Show	Pelican Waters Shopping Village Pelican Waters, Caloundra
15-16 September	TBA	Spring	Rockhampton OS	Rocky High School Hall Campbell Street, Rockhampton
15 September 16 September	8.30am-4.00pm 8.30am-2.00pm	Spring	Ipswich OS Spring Show	Bundamba Primary School Hall Brisbane Road, Bundamba
15 September 16 September	8.30am-4.30pm 8.30am-3.30pm	Spring	Eastern Districts OS EDOS Spring Show	Wondall Heights State School, Assembly Hall Wondall Road, Manly West, Brisbane
16 September	TBA	Spring	Pioneer River Orc & Plant Soc Annual Field Day	Mackay High School Hall Milton Street, Mackay
20-22 September	Shopping Centre Hours	Spring	Southport & Districts OS	Centro Nerang
20-21 September 22 September	9.00am-9.00pm 9.00am-1.00pm	Spring	North Queensland OS – Cairns Spring Show	Raintrees Shopping Centre Alfred Street, Manunda, Cairns
20-22 September	Shopping Centre Hours	Spring	West Moreton Ochid Group	City Square Shopping Centre Brisbane Street, Ipswich
20-21 September 22 September	8.30am-5.00pm 8.30am-1.00pm	Spring	Maryborough Disttict OS Annual Spring Show	St Pauls Memorial Hall Cnr Adelaide & Ellena Sttreets, Maryborough
21-22 September	9.00am-4.00pm	Spring	Capricorn Orchid & Foliage Orchid & Foliage Club	Masonic Club Williams & Kent Streets, South Rockhampton
22-28 September 29 September	9.00am-5.00pm 9.00am-3.00pm	Spring	Darling Downs Orchid Society Spring Show	Centenary Heights High School Hall Ramsey Street, Toowoomba
22-30 September	Museum Hours	Spring	Native OS of Toowoomba Spring Show (NOSTI)	Milne Bay Military Museum O'Quinn Street, Toowoomba
28 September 29 September	9.00am-5.00pm 9.00am-3.30pm	Spring	Glasshouse Country OS Spring Show	Beerwah Community Hall Peachester Road, Beerwah
29 September	8.30am-4.00pm	Spring	Redlands OS Spring Charity Show	Donald Simpson Leisure Centre Cnr Russell & Bloomfield Streets, Cleveland
4-6 October	8.00am-9.00pm	Spring	Gold Coast OS Spring Display	Pines Shopping Centre Elanora, Gold Coast, Queensland
4-6 October	9.30am-4.00pm	Spring	Atherton Tablelands OS Spring Show	Atherton Agricultural Show Showgrounds
11-13 October	Shopping Centre Hours	Spring	Pine Rivers OS PROS Spring Show	Aspley Pick-N-Pay Hypermarket Gympie Road, Aspley
11-13 October	Shopping Centre Hours	Spring	Mackay & District OS Autumn Show	Mt Pleasant/Greenfields Shopping Centre Mackay
12-13 October 14 October	9.00am-5.00pm 9.00am-4.00pm	Spring	Townsville OS Spring Show	Townsville Orchid Society Inc Hall Joe Kirwan Park, Charles Street, Kirwan
13 October 14 October	8.30am-5.00pm 8.30am-2.30pm	Spring	Bribie Island OS 20th Anniversary Spring Show	Indoor Bowls Club Hall First Avenue, Bribie Island
13-14 October	9.00am-4.00pm	Spring	North Moreton OS	Auditorium Botanic Gardens, Mount Coot-tha
16-20 October	Shopping Centre Hours	Spring	Redcliffe & District OS Spring Show	Redcliffe City Library Oxley Avenue, Redcliffe
20-21 October	9.00am-5.00pm	Spring	NOSTI Orchid Show featuring Sarcophilus Orchids	Walshs Seeds & Garden Centre 881 Ruthven Street, Toowoomba
10-11 November	9.00am-4.00pm	Spring	Pumicestone District Orchid & Foliage Society	Ningi Community Hall Bribie Island Road, Ningi
28 November- 1 December	Shopping Centre Hours	Spring	Redcliffe & District OS Spring Show	Peninsular Fair Kippa-Ring

Victoria

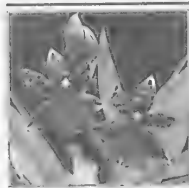
3-4 August 5 August	9.30am-5.00pm 9.30am-4.00pm	Winter	Stawell OS Stawell Winter Show	Laidlan Park, Trackside Taberet Patrick Sttreet, Stawell
4 August 5 August	9.00am-4.30pm 9.30am-4.30pm	Winter	Warrigal OS Winter Show	St Sava Community Centre - (Melway Map 11, C-8) 212 Diamond Creek Road, Greensborough
5-11 August	Shopping Centre Hours	Autumn	Mornington Peninsular OS Keysborough Orchid Show	Parkmore Shopping Centre Cheltenham Road, Keysborough
17-18 August 19 August	9.00am-5.00pm 9.00am-4.00pm	Winter	Orchid Soc Council of Victoria Melbourne Orchid Spectacular	Collectors Corner at Garden World 810 Springvale Road, Braeside

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COOL FLOWERING ORCHIDS THROUGHOUT THE YEAR



ROSS MACDONALD

COOL FLOWERING ORCHIDS THROUGHOUT THE YEAR

by Ross Macdonald

Ross Macdonald is a highly respected orchid grower and photographer from the North Island of New Zealand. This volume is devoted to cool growing orchid genera, which are easy to cultivate in New Zealand and southern Australia. Growers in tropical areas should not be discouraged, as many of these orchids are indeed adaptable and will grow in a range of climates. Andy Easton has written the foreword. Ross has devoted the first few pages of the book to cultural hints,

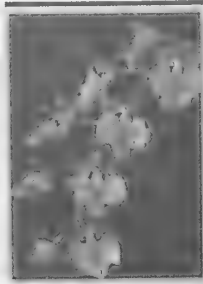
which are down to earth and give practical information on the basics of orchid cultivation. Basically this is a pictorial book with over 300 full colour photographs, covering a similar number of orchid species and hybrids. The quality of both the photographs and the colour reproduction is impressive. All of the orchids have been captured using available sunlight and there is no flash photography. There is a wide range of orchid genera covered with particular emphasis placed on cymbidiums, dendrobiums, laelias, masdevallias, the *Odontoglossum* alliance and *Paphiopedilum*.

The photographs are arranged in four chapters, referring on their main blooming season. The use of seasons ensures the text is also applicable to growers in the northern hemisphere. This inexpensive book is exceptional value and importantly is written by someone who knows and grows these orchids. I thoroughly recommend this book to orchid growers, as it will be of great value to both novice and experienced enthusiasts.

144 pp. 242mm x 168mm
Softcover.

OUR DISCOUNT PRICE **\$A25.30**
(Ind. GST)
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MORE FLOWERING ORCHIDS THROUGHOUT THE YEAR



ROSS MACDONALD

MORE FLOWERING ORCHIDS THROUGHOUT THE YEAR

by Ross Macdonald

This is the sister volume to Cool Flowering Orchids throughout the Year. It is in the same format and style as the previous book, but also includes some genera that would require artificial heating in cooler climates. This volume covers a further 314 orchid species and hybrids with 344 colour plates. Both texts are highly recommend to all orchid fanciers; particularly newcomers who wish to see an array of delightful flowers that they could grow.

132 pp.
242mm x 168mm
Softcover.

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ORCHIDS

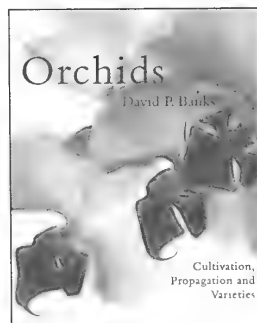
*Cultivation, Propagation
and Varieties*

by David P. Banks

"Orchids" is an irresistible volume for all orchid lovers that offers practical advice to ensure no more flowerless stalks, no more browned and brittle leaves and no more dead and dying plants. Indeed, "Orchids" offers rare insights and comprehensive advice on how to keep your orchids vibrantly and beautifully healthy.

As detailed as it is diverse, "Orchids" explains precisely what your chosen species, hybrids or variant needs in order to flourish at your fingertips. With techniques and tips from professional orchid growers and experts, each natural habitat can be reproduced in your home to accommodate your favourite bloom. Fascinating and richly descriptive chapters take you through the history of orchid discovery, their geographical distribution and natural habitat, the awesome diversity of colour, shape and size, and all aspects of cultivation. A gloriously illustrated directory of species outlines the main characteristics of some 400 orchids. Illustrated with breathtaking images, "Orchids" is an excellent guide to growing orchids successfully.

224pp. Colour throughout.
215 x 280mm Soft cover.



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Introducing Cattleyas

By
Noni J. Mammatt
Lect. Hort., M.A.I.H.

INTRODUCING CATTLEYAS

Noni J. Mammatt

Noni Mammatt's fascination with the *Cattleya* Alliance, their most beautiful blooms and extensive range of colour combinations, has prompted Noni to share the results of her own trials in successfully growing and flowering all types of this most beautiful genus under shade-house conditions in the city of Perth in Western Australia. She hopes that as a result of her writing some new growers, as well as the experienced growers of other orchid genera, may be encouraged to introduce the *Cattleya* Alliance into their collections.

24 pages, B&W.

OUR DISCOUNT PRICE **\$A6.60**
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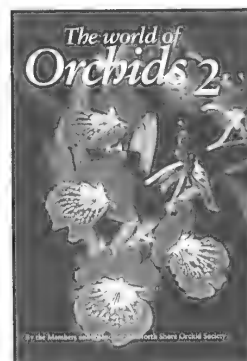
THE WORLD OF ORCHIDS - 2

The World of Orchids - 2 has been written by members and friends of the North Shore Orchid Society about orchids grown in Sydney and its environs, and we are indebted to those people for their time and effort.

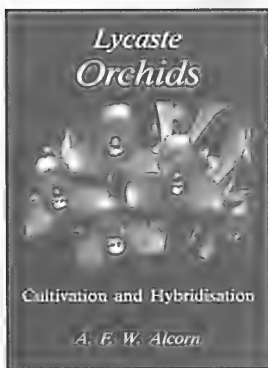
It has been produced to cover a large range of genera to help not only the novice, but also the experienced grower in their present fields of interest, and to tempt and encourage them to try other genera.

It should be pointed out that the methods of culture used by the authors are those which they themselves have found successful. Growers should try any changes to their own culture gradually and on a few plants first, as orchids respond differently under different conditions.

80 pages, colour and B&W.



OUR DISCOUNT PRICE **\$A9.50**
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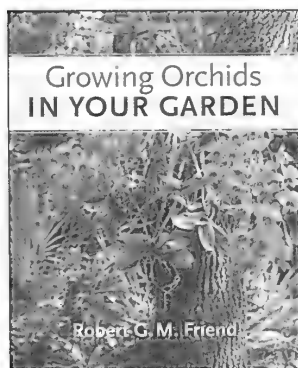
LYCASTE ORCHIDS - Cultivation and Hybridisation A.F.W. Alcorn

lycaste orchids are easy to grow, and they produce flowers that range from the beautiful to the bizarre. No book previously has provided detailed cultural requirements of the lycaste, and this book should fill that gap, and encourage new growers to take up the cultivation of this beautiful genus. A section on hybridising contains valuable information on inheritance and genetics that will benefit any hybridiser, not just the grower of lycastes, as well as helpful hints on how to avoid pitfalls in your hybridising program. Michael Hallett, a friend of Fred Alcorn for a number of years, completed it posthumously. He has a back-

co-wrote this book with Fred and has ground in genetics, research and botany, and a passion for plants, especially orchids.

237 pages, colour and B&W.

OUR DISCOUNT PRICE \$A24.00
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GROWING ORCHIDS IN YOUR GARDEN by Robert Friend

Just about wherever you live in the world, you can grow orchids in your garden. In this exciting book, Robert Friend shows gardeners how to introduce orchids into the garden by attaching them to trees, fixing them to rocks and walls, or planting them directly into garden beds.

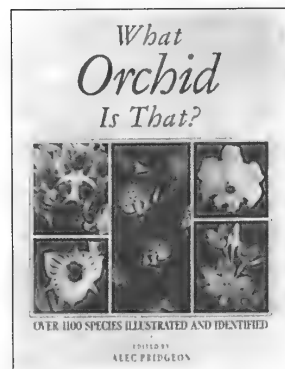
He has traveled the world from Florida to the cool forests of North America, to the tropics of the Pacific Rim and to his origins in Australasia, searching for new ideas and new ways to cultivate these striking plants.

The author details more than 500 orchid choices for every garden situation and supplies practical cultivation information in thorough charts and tables.

Growing Orchids in Your Garden offers an array of dramatic ideas for every reader.

220 pages in colour.

OUR DISCOUNT PRICE \$A43.95
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WHAT ORCHID IS THAT? Edited by Alec Pridgeon

The orchid is one of the most passionately cultivated flowers world-wide, and for centuries it has been a symbol for the exotic and mysterious in the human imagination. As the brilliant photographs in this book show, the shapes, hues and textures of many of these extraordinary flowers continue to produce a shock of wonder in the viewer.

This book will delight everyone, from the gardener with a casual interest in orchids, to the confirmed enthusiast. It takes in a wide spectrum of orchid genera and more than 1100 species common in cultivation, presented by an international team of experts.

The first section, by the General Editor, Alec Pridgeon, introduces orchid habitat, distribution, names and classification, hybrids, pollination, how to grow orchids and control pests and diseases, and orchid conservation.

The alphabetical section, "Orchids A-Z", includes descriptions, names and synonyms, geographic distribution, notes on culture, and photographs drawn from collections around the world, showing the best-known species in cultivation.

Whether you are buying, growing or just looking, this is the ultimate guide to orchids.

304 pages, colour.

OUR DISCOUNT PRICE \$A45.95
was \$54.95 RRP (Incl. GST) PLUS POSTAGE AND HANDLING

GROWING PHALAENOPSIS AT HOME James Neal

This book is essential reading and reference for any person who grows, or is intending to grow, Phalaenopsis.

Jim, in a simple and easily understood style, explains and elaborates on light conditions, watering, temperatures, fertilisers, pests and diseases.

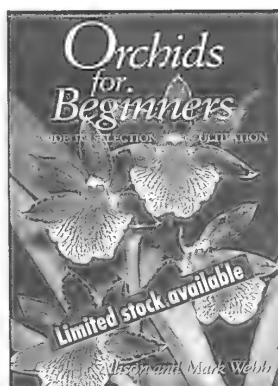
Explanations of the way Phalaenopsis are named and the implications of growing seedlings, illustrate some of the more difficult ideas for the layman to understand.

The colour photography illustrates beautifully the topics under discussion and the orchid names are supplied, where necessary, as a caption.

The illustrations drawn by Jim's son Jamie are pertinent and succinct and make the subject more easily understood.

56 pages, colour and B&W.

OUR DISCOUNT PRICE \$A12.80
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ORCHIDS FOR BEGINNERS

A Guide to Selection and Cultivation Allison and Mark Webb

"Orchids for Beginners" is for those just starting out in orchids. It provides information about choosing orchids best suited to your conditions and how to grow them. There is advice on what to look for when choosing plants to avoid some common traps and the expense of losing plants unsuited to your conditions. The essential basics of cultivation for beginners are covered - potting media, mounting plants, repotting and deflasking as well as choosing locations and building bushhouses.

There are suggestions for growing in country areas as well as indoors. The plant descriptions offer suggestions of plants to choose from as well as introducing some of the very varied forms of orchids.

48 pages, colour and B&W.
Limited numbers only

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SARCOCHILUS ORCHIDS OF AUSTRALIA Walter T. Upton

Sarcochilus Orchids of Australia is the first book to cover all aspects of species of the genus Sarcochilus. Compact plants of great floral beauty with ease of culture, they are mostly cool to cold growing, requiring limited space, and for these reasons are quickly becoming the orchid of the future.

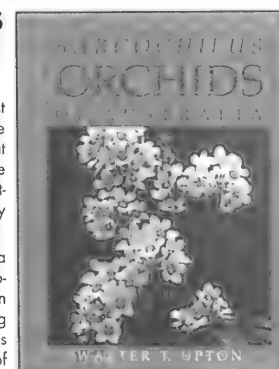
The book gives each individual species a separate entry, with information on its history, synonyms, distribution, habitat, cultivation and hybrids, along with a drawing showing the main parts of the plant and flower, plus a colour plate providing an easy means of identification.

Hybridising, including intergenerics, is dealt with in detail - most registered hybrids being accompanied by a colour plate. Other chapters include pollination, seed raising and cultural information for the home grower.

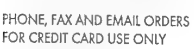
This is Walter T. Upton's third book and is a companion to his very popular and informative Dendrobium Orchids of Australia.

119 pages, colour and B&W.

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DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
23-26 August	Shopping Centre Hours	Winter	Gippsland Orchid Club Winter Show	Mid Valley Shopping Centre Morwell
1 September	9.00am-5.00pm	Spring	Murray Valley OC	Scout Hall Welsford Street, Shepparton
2 September	9.00am-4.00pm			
1 September	9.30am-5.00pm	Spring	Sale & District OC	St. Mary's Hall cnr. Pearson and Macalister Streets, Sale
2 September	10.00am-4.00pm			
2-8 September	Shopping Centre Hours	Winter	Mornington Peninsular OS Dandenong Orchid Festival	Dandenong Plaza Shopping Centre Dandenong
7 September	9.30am-4.30pm	Spring	South Gippsland OC	Town Hall Baillieu Street, Wonthaggi
8 September	9.30am-3.00pm			
8-9 September	9.00am-4.00pm	Spring	Southern Suburbs OS	Senior Citizens Hall, cnr. Exley Drive/Nepean Highway, Moorabbin
8-9 September	Sat-Sun.	Spring	Cym. Orchid Soc. Vic.	Town Hall, Ararat
8-9 September	9.00am-5.00pm	Spring	Maribyrnong OS Spring Show	Maribyrnong Community Centre Randall Street, Maribyrnong
15-16 September	9.00am-4.00pm	Spring	West Gippsland OC	Anglican Church Hall, Princes Way, Drouin
15 September	9.00am-5.00pm	Spring	Bairnsdale & Dist. Orc Group	Lucknow Memorial Hall
16 September	9.00am-4.00pm		Annual Spring Show	Omeo Highway, Lucknow
15 September	10.00am-4.00pm	Spring	Murray Hill Orchid Club	Memorial Hall
16 September	10.00am-3.30pm		Spring Show	Nolan Street, Kerang
21 September	9.00am-9.00pm	Spring	Sunraysia Orchid Club	Centro Mildura Plaza
22 September	9.00am-5.30pm		Spring Show	Cnr Deakin Avenue & 15th Street, Mildura
23 September	10.00am-5.00pm			
22 September	9.00am-4.00pm	Spring	NE Melbourne OS	Bulleen Heights School Pleasant Road, Bulleen
23 September	10.00am-4.00pm			
22-23 September	9.00am-4.00pm	Spring	Melbourne Western OS	Racecourse (members' entrance) Bulban Road, Werribee
22-23 September	9.00am-5.00pm	Spring	Dandenong OS	Dandenong Show Grounds Bennet Street, Dandenong
22 September	9.00am-4.30pm	Spring	Goulburn Valley OC	Senior Citizens' Club Rooms Welsford Street, Shepparton
23 September	9.00am-4.00pm			
22 September	9.00am-5.00pm	Spring	St. Arnaud OS	RSL Hall Raglan Street, St. Arnaud
23 September	10.00am-4.00pm			
22-23 September	9.00am-4.00pm	Spring	Berwick OC	Senior Citizens' Hall 112 High Street, Berwick
28-29 September	10.00am-4.00pm	Spring	Stawell OS	Entertainment Centre Main Street, Stawell
30 September	10.00am-3.30pm			
29 September	9.00am-5.00pm	Spring	Maroondah OS	Beaumont Hall, Blackburn High School Cnr Williams & Springfield Roads, Blackburn
30 September	9.00am-4.00pm		Spring Show	
29-30 September	9.00am-4.00pm	Spring	Australasian Native OS	Mt. Waverley Community Centre 47 Miller Crescent, Mt. Waverley
30 September- 6 October	Shopping Centre Hours	Spring	Mornington Peninsular OS Langwarrin Orchid Show	Gateway Shopping Centre Cranbourne-Frankston Road, Langwarrin
4-7 October	Shopping Centre Hours	Spring	Gippsland Orchid Club Spring Show	Mid Valley Shopping Centre Princes Highway, Morwell
5 October	1.00pm-5.00pm	Spring	Bendigo Ochid Club	YMCA Leisure Centre
6 October	10.00am-5.00pm		Annual Spring Show	Browning Street, Kangaroo Flat
7 October	10.00am-4.00pm			
6 October	9.30am-5.00pm	Spring	Melbourne Eastern OS	Uniting Church Community Hall, Burwood Heights
7 October	12.30am-4.30pm		'World of Orchids' Show	Cnr Blackburn Road & Burwood Highway, Burwood East
6 October	9.00am-5.00pm	Spring	Horsham & District OS	Town Hall
7 October	9.00am-4.00pm		Spring Orchid Show	Wilson Street, Horsham
6 October	9.00am-4.30pm	Spring	Warringal OS	St Sava Community Centre - (Melway Map 11, C-8)
7 October	9.30am-4.30pm		Spring Show	212 Diamond Creek Road, Greensborough
6 October	10.00am-4.00pm	Spring	Warrnambool Dist. OS	Warrnambool College Hall
7 October	10.00am-3.00pm			Grafton Road, Warrnambool
6 October	9.00am-5.00pm	Spring	Ringwood OS	Maroondah College Hall
7 October	10.00am-4.00pm			Brentnall Road, Croydon, Croydon
6-7 October	10.00am-4.30pm	Spring	Geelong Orchid & Indoor Plant Spring Show	Christchurch Hall Cnr Moorabool & McKillop Streets, Geelong
6-7 October	9.00am-4.00pm	Spring	Ringwood OS Spring Show	Maroondah Secondary College Brentnall Road, Croydon (Melways Map 50 E3)
13 October	1.00am1-4.00pm	Spring	Colac OC	Colac High School
14 October	10.30am-4.00pm			Assembly Hall, Princes Highway, Colac West
18-20 October	Show Hours Close 8.30 evenings	Summer	Sunraysia Orchid Club Mildura Horticultural Show	Mildura Horticultural Show Showgrounds, Mildura
19 October	2.00am-5.00pm	Spring	Ballarat OS	SMB Horticultural Centre
20 October	10.00am-5.00pm			cnr. Gillies and Gregory Streets, Ballarat
21 October	10.00am-4.00pm			
20 October	9.00am-5.00pm	Spring	Yarra Valley OS	Seville Hall
21 October	10.00am-4.00pm		23rd Annual Orchid Festival	Warburton Highway, Seville

SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
20 October	9.30am-4.30pm	Spring	Cobden & District Orchid Club	Civic Hall
21 October	9.30am-4.00pm			Victoria Street, Cobden
27 October	10.00am-5.00pm	Spring	Ararat OC	Town Hall
28 October	10.00am-4.00pm			cnr. Vincent and Barkly Streets, Ararat
3-4 November	9.30am-5.00pm	Summer	Stawell OS Summer Show	Halls Gap Hall Main Street, Halls Gap
3-4 November	Shopping Centre Hours	Summer	Mornington Peninsular OS Frankston Orc. & Flower Show	Community Hall of Brotherhood of St Lawrence 26 High Street, Frankston
10 November	9.00am-5.00pm	Spring	Yarra Valley OS	B. & T. Ferns
11 November	10.00am-4.00pm			30 Wiseman Road, Silvan, Sylvan South
10-11 November	9.00am-5.00pm	Spring	Maribyrnong OS Sarcochilus Festival of Vic '07	Maribyrnong Community Centre Randall Street, Maribyrnong
27-29 November	9.30am-5.00pm	Spring	Stawell OS	Stawell Entertainment Centre
30 November	9.30am-4.00pm		Stawell Spring Show	Main Street, Stawell

South Australia

29 July- 4 August	Shopping Centre Hours	Winter	SA Orchidaceous Society Winter	Stockland Parabanks Shopping Centre
25 August	9.00am-5.00pm	Spring	Riverland OS	Berri Town Hall
26 August	9.00am-4.00pm		Riverland Orchid Spectacular	Wilson Street, Berri
12-16 September	10.00am-4.00pm	Spring	Port Lincoln Orchid Club Spring Show	Kallinyalla Nursery Shaen Street, Port Lincoln
14 September	12.00noon-5.00pm	Spring	Murray Bridge & Dist Orc Club Spring Orchid Show	Town Hall Bridge Street, Murray Bridge
15-16 September	10.00am-4.00pm			
17-21 September	9.00am-5.00pm	Spring	Mt Gambier & Dist OS Spring Orchid Show	Banner Hardware Bay Road, Mount Gambier
19-22 September	Shopping Centre Hours	Spring	Whyalla Orchid Club Spring Show	Westlands Shopping Centre Whyalla Morrie
21 September	10.00am-4.00pm	Spring	Port Augusta Orchid Club	Port Augusta Garden Club Room
22 September	10.00am-2.00pm		Spring Show	Cnr Elizabeth Terrace & Paringa Road, Port Augusta
23-29 September	Shopping Centre Hours	Spring	SA Orchidaceous Society Spring	Burnside Village Shopping Centre

Tasmania

21-23 September	10.00am-4.00pm	Spring	Launceston OS Spring Show	The Silverdome, Prospect, Launceston
27 September	2.00pm-5.00pm	Spring	Tasmanian OS	Hobart Town Hall
28-29 September	9.00am-5.00pm		Spring Show and Orchid Conference	50 Macquarie Street, Hobart
30 September	9.00am-4.00pm			
5 October	2.00pm-5.30pm	Spring	Devonport OS	Maidstone Park Memorial Hall
6 October	9.00am-5.30pm		Spring Show	Spreyton
7 October	9.00am-4.00pm			
12 October	2.00pm-5.00pm	Spring	Burnie OS	Bradden Hall
13 October	9.00am-5.00pm		Spring Show	Burnie Civic Centre
14 October	9.00am-4.00pm			Burnie
10 November	9.00am-4.00pm	Spring	Devonport OS Sarcochilus Show	Maidstone Park Memorial Hall Spreyton

Western Australia

1 September	1.00pm-5.00pm	Spring	Cymbidium Orchid Club of WA	Cannington Showground
2 September	9.00am-4.00pm		Spring Show	Cnr Albany Highway & Station Street
13-15 September	Shopping Centre Hours	Spring	Wanneroo OS Spring Show	Lakeside Joondalup S/c, Joondalup Drive, Joondalup
20 September	8.30am-9.00pm	Spring	Albany OS	North Road Shopping Centre
21 September	8.30am-6.00pm		spring Show	North Road, Albany
22 September	8.30am-12.30pm			
27 September	8.00am-9.15pm	Spring	Bunbury OS	Bunbury Forum Shopping Centre
28-29 September	8.00am-5.30pm		Spring Show	Bunbury

New Zealand

18 August	10.00am-4.00pm	Winter	South Auckland OS Winter Show	Senior Citizens Hall East Street, Papakura
24 August	1.00pm-4.00pm	Spring	Auckland Orchid Club	Kelston Community Centre
26-26 August	9.00am-4.00pm		Spring Show	Cnr Great North Road and Awaroa Avenue, Kelston, Waitakere City
1 September	1.00pm-5.00pm	Spring	Nelson OS/Alpine Garden Soc Combined Spring Show	Hope Hall Main Road, Hope
2 September	10.00am-4.00pm			
8-9 September	9.00am-4.00pm	Spring	Capital City OS Spring Show	Begonia House Wellington Botanic Gardens
20 September	10.00am-5.00pm	Spring	New Zealand OS	Mount Albert War Memorial Hall
21 September	10.00am-4.00pm			New North Road, Mount Albert, Auckland
28-29 September	12.00noon-5.00pm	Spring	Waikato OS	Hamilton Gardens
30 September	10.00am-4.00pm		Waikato Spring Show	Exhibition Court & Chartwell Room
6 October	10.00am-4.30pm	Spring	Canterbury OS	Canterbury Horticultural Centre
7 October	9.00am-4.00pm		Canterbury OS Show	Riccarton Avenue, Christchurch



Dendrobium bensoniae, form from India (plant & photo: D.P. Banks)

Coping with Drought and Water Restrictions

by Robert Friend

As I write this in late April 2007 much of south-eastern Australia, Queensland in particular, is gripped by one of the worst droughts recorded. A couple of recent correspondents have suggested, somewhat too gloomily in my opinion, that it's no longer worth growing orchids and they will be obliged to give up their hobby and adopt one which doesn't use as much water.

I recall a similar prolonged dry spell in the early 1950s when I lived in Sydney and, as a young bloke, was mad about growing orchids. We used a few tricks then to help pull our orchids through. If you haven't heard about them, here are some of them.

Firstly, all orchid growers (but especially Queenslanders suffering Level 5 water restrictions) take this dry time as an opportunity to go through your entire collection with a view to reducing it. Cull plants which haven't flowered in say the last two years. Cull all duplicates – give a duplicate of a good orchid to a friend as insurance. Cull all sick or diseased plants which you've put aside hoping for a mira-

cle cure. Consider your older hybrids critically. Do they still "cut the mustard" or do you have more modern seedlings coming along to replace them?

Secondly, try planting some (or all if you are brave enough) of your orchids outside in your garden. Cymbidiums, Phaius, Calanthes and Zygopetalums to name a few genera, will stay moister in well-prepared and mulched garden beds than they do in pots in an orchid house. Try Cattleyas, Dendrobiums and Vandas in rockeries in broken shade or attach them firmly to suitable trees in your garden. No suitable tree in your garden? Try a citrus, frangipani or Callistemon in a tub. When you water the orchids attached to it (which we'll discuss shortly) you water the host tree as well. I've recently glued various epiphytic orchids to a couple of advanced rough-barked *Tabebuia* trees in tubs and within a week new roots were crawling over the hosts. Spray orchids you plant out liberally with an anti-transpirant. Not only does this help them retain moisture within their stems or pseudobulbs, it also helps protect them against temperature drops as

autumn progresses into winter. You may be surprised at the amount of precipitation over night as the temperature drops in your garden. Orchids planted out take advantage of this extra source of moisture which they do not get in most standard orchid houses.

Meanwhile back in that orchid house you may be growing more delicate genera such as *Paphiopedilums*, *Masdevallias*, *Dendrobiums* from highland New Guinea, *Miltoniopsis* and *Odontoglossums*. Earlier generations of orchid growers ensured these gems survived tough conditions by double-potting them, slipping each pot inside a larger one and filling the space between each pot with damp sphagnum moss. This acts as an insulator, keeping the inside pot cooler and moister and reducing dramatically the need to water it.

Speaking of that nice, damp sphagnum moss, consider using it as your principal potting medium. Most orchid genera grow well in pure sphagnum and certainly require a lot less water than they do if potted in more open, less water retentive mixes. Another more modern potting



Dendrobium pierardii (and other epiphytes) at R.F. Orchids, Florida USA (photo: D.P. Banks)

medium is coconut husk chip which, like sphagnum, retains much more water than the traditional open bark and charcoal mixes. Do ensure you obtain coconut husk chips from an orchid nursery which stocks properly prepared material with a guaranteed low EC and pH of between 5.5 and 6.5 (such as OrchidMate). Either of these potting materials will keep your orchids alive until the drought breaks and water restrictions are lifted. If you want to, you can repot your collection back into your favourite mix when that happens.

Many orchids are so much tougher than we imagine, especially those from monsoon climates where they are baked by the

sun in the dry season. How about this quote from Colonel Robert Benson, an orchid hunter in his spare time when stationed in Burma (now Myanmar) in the 1860s.

"The first time I visited these hills was in the beginning of February. The trees had dropped their leaves; the jungle grass was burnt up, even to the elevation of 1,500 feet. The hills were bare. The stems of the leafless trees were charred and scorched, giving the whole country thereabouts a burnt, black, desolate appearance. Here the heat was almost insupportable, and I do not think I shall be exaggerating in stating that the thermometer could not have been

less than 120°F in the shade at this season; yet this is the spot selected by *Vanda coerulea*, *Dendrobium bensoniae* and other orchids."

Would you let your orchid house get to that state? So what do you think would happen to your Cattleyas, Laelias and Dendrobiums if you didn't water them for say six weeks while they rest over winter? At the least they will survive. At the best they'll flower even better in due season. Several commonly grown orchid genera actually demand to be kept dry once their seasonal growths are complete. Once their growth is mature deciduous *Calanthes*, *Thunias*, *Catasetums* and some *Lycastes* shed their leaves and remain bare-bulbed and dry in their natural homes until spring showers break their dormancy as much as six months later. Dendrobiums of Section *Phalaenanthus*, including our own Cooktown Orchid *Dendrobium bigibbum*, start into growth in about October their canes maturing in March when they start flowering. The new growths of the showy *Cattleya bowringiana* emerge in December, grow rapidly for three months then flower in February and March. None of these orchids could care less about water restrictions whilst they are at rest.

So what about watering itself when you can't use a hose? Our orchid growing forebears used watering cans and we can too. Watering cans are cheap and readily available. If your orchid collection is planted out in your garden or potted in large diameter pots select a fine rose for your watering can so you can sprinkle your plants evenly. Nine litres of water (which is the amount most cans hold), goes a lot further than you would imagine. For your orchid house choose a narrow rose or discard the rose and crimp or choke the watering can's nozzle to restrict the water flow. This lets you control the amount you apply to each pot without wasting any. The water which runs out each pot's drainage hole will keep up the humidity level if the floor of your orchid house can trap it.

If some of your orchids grow suspended on cork or treefern slabs consider placing them horizontally on the bench for the drought's duration. They'll stay damper for longer and you should have plenty of bench space after your culling, shouldn't you? Water them by dunking them in a bucket or drum of water. Indeed you can water your potted orchids in the same way and they'll grow even better for you. I know some growers will protest about the risk of spreading disease by using the same water for all their plants but they should have culled any diseased plants by now. I know I'd rather run the risk of possible disease than face certain death by dehydration. I think most of our orchids would too.

To water your garden-grown epiphytes use either a knapsack sprayer or a hand-held five litre sprayer. The nozzles are

adjustable to provide a fine spray, coarser drops or a single jet. You can apply fertilizer with the same sprayer. Ten litres of water through a sprayer covers an awful lot of tree trunks, branches and rocky surfaces. A great advantage is associated with watering by can, dipping or sprayer – you actually inspect each plant a lot more carefully than you do when standing off watering with a hose.

One more trick of the trade worth considering originated in Calcutta Botanical Gardens in India probably 100 years ago. There on a mango tree grew a wonderful plant of *Dendrobium pierardii*. An observant gardener, noticing that the orchid grew best during longer than usual rainy seasons, fastened a large jar filled with water in the mango's branches above it and tied a wick from the jar to a point on the branch just above the orchid's base. Osmosis kept the orchid's roots damp and its stems grew over six feet long providing a spectacular display at flowering time. I'm sure inventive growers could and will adapt this idea for their orchids' benefit. Vase-type epiphytic Bromeliads (great orchid companion plants) provide natural water containers.

Even in adversity there can be benefits to us orchid growers. One such benefit is that we become a whole lot more discerning about our orchid collection. Another more practical benefit is that during droughts we don't have to worry too much about slugs and snails. Our orchids will naturally slow down and their water requirements diminish as winter approaches. You may not need to put into practice any of these tips until next spring unless the drought breaks before then which doesn't seem terribly likely. Even if it does break, it's certain we'll have another dry spell before too long. Don't give up your precious orchids. Use a bit of ingenuity and enjoy them even more. ■

Robert Friend
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- David Keanelly Orchids (Vic) • Orchid Species Plus (Vic)
- Dendi Orchids (NSW) • The Orchid Tray Company (NSW)
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Australian Natives

In the early morning sunlight there is the overpowering sweet scent of *Dendrobium falcorostrum* mixed with the musky *D. speciosum*. Add a trace of the sweet vanilla of *D. tetragonum* and you know it is the main flowering time for native orchids. While all are not as wonderfully scented as these there is an unmistakable odour to a collection at this time of year. The range of flowers is pretty impressive too.

This is the main time for shows, so go out and see the newest seedlings in bloom. Have a look at the massive specimen plants. And grab a few bargains at the sales table. Don't forget though that you will have to supply water and growing space so don't get too carried away. Flasks of seedlings are a good way to get some of the newest breeding at a reasonable price.

If you are going to display your plants, be sure that the racemes are not tangled but displaying the individual flowers as best they can. It is a bit late to untangle them once the flowers open. Make a list of the plants you are benching. Note what section they are going in so they can be benched quickly and, more importantly, collected quickly when the show is over. Soak plants well before taking them to the show, but be sure they are well drained. Larger plants will cope without water for a couple of days in the average hall, but smaller ones will probably need water or they will take a couple of seasons to recover. Air conditioned shopping centres will also dehydrate plants. At least they will have other growers' plants to help maintain humidity.

Pests are easily passed around so be sure your plants are clean before benching them.

Go through your collection looking to cull natives that aren't up to scratch. Has the plant produce poor blooms for a couple of years? Is it weak and sickly and slow to grow? If these are hybrids or selectively bred species they are probably not worth the effort of supplying water or the bench space. Plant them in the garden if you must or bin them. Don't pass them on to unsuspecting newcomers.

When the blooms fade it is time to get started on the repotting and general plant care before the new growths get started. Leave the stems from the flowers until they are dead and dry. Plants put a lot of resources into them and will reclaim this. Remove the flowers as they finish because they can host fungi.

Check to see if a plant needs to be repotted or just cleaned up. Is there room for another season's growth or are the pseudobulbs already distorting the pot? Is the media still lumpy allowing adequate air flow around the roots. Look carefully at any plants in media you haven't used before to see how it is going. Tip plants out and have a look at the roots. They should be strong and healthy and have filled the pot if they were given enough time last growing season. Just give the pot a squeeze to loosen the plants and support it with your hand. You might need to add a little extra media when it is returned to the pot. If there are dead and soggy roots you will need to look at the drainage of the media by adding larger material that doesn't break down quickly or hold

excess water. Any natives growing in poorly draining media will need to be repotted. If the mix is dry and the roots papery, add finer material, but check the plant is getting enough water first.

Be sure to take precautions against spreading viruses and diseases by leaving sickly plants until last in the day. Wash hands (try gloves) between plants and sterilise tools regularly. Any pots being reused should be thoroughly washed and sterilised with bleach or something with antiviral properties. Any plants known to be infected with a virus should be disposed of in the garbage. They are too much of a risk with aphids and other munching pests to spread diseases. Not worth the effort of isolating them.

When repotting native orchids that have a lot of dead roots you can afford to be a bit ruthless, particularly this early in the growing season. Tear away any dead growths and their roots. Don't just move the lot along to the next pot or the dead roots will begin to break down and rot. Certainly don't remove the pseudobulbs and leave the roots to harbour pests. After you have trimmed away unnecessary roots give the plant a good wash. A blast with a strong jet of water from a hose was always the best way to do this, but in light of water conservation maybe a bucket of water with some dilute fertiliser, and give the plant a good shake. You can also try a sharp tool, either a thin metal spike or even a sharpened chopstick, to comb out the roots so you can get a good look at what is there. Don't hesitate to shorten really long roots rather than twist them back up in the pot. The new growths will produce new roots as they mature.

This is also the best time to remount any plants as they will grow new roots to attach to the mount later. Consider the material you use as mounted plants are the quickest to dry out and need extra care. However, there are many native orchids that simply will not survive in a pot.

It would be nice to think everyone has the time to read this due to rain keeping them indoors – but outside there are flowers to enjoy and work to do.

Cattleyas

Winter is now here and if you live in the southern states and do not have a heated house your cattleyas will be in a near dormant stage. If you are lucky enough to have a heated house keep the night temperature at a minimum of ten degrees Celsius. If not, well, make sure the plants are kept in a sunny position out of the prevailing winds. If possible, that is if you have the room, hang your plants up high to get maximum light, which they like during the winter months.

If plants come into bloom during winter, try to keep the flowers dry. Depending on the weather conditions you will find watering every seven to ten days should suffice. The plants will require very little nutrients during this time. Once the weather starts to warm you can start to apply a small amount of nutrients. Parts of Queensland and the north coast of New South Wales will notice growth before the southern states. During this growth period I prefer to use an organic fertiliser. This helps to put friendly fungi back into the growing media. The ideal fertiliser would be MAJOR CARP. Use every fifteen to twentyone days at 3ml per litre of water. This is a very light rate, as one does not want to



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burn new roots. Water just before applying and water four or five days later. You could mix a little SUPERTHRIVE in with the CARP to get growth moving.

Always check for **mealy bug** and **scale**. If only a small infection spray with ANTISCALE® or if you do not want to use a toxic compound, use ECO OIL® or a mixture of NATRASOAP® and SPRAYTECH OIL®. Follow directions on the container. It is important to mix the NATRASOAP® and the oil together before mixing in the spray container. ■

Cymbidiums

Now is definitely *Cymbidium* time. The king of flowers are now out in all their glory. At the orchid shows, the public look at them in all their glory, standing up straight and wonderful. Have you noticed how good the seedlings are these days? The hybridisers seem to be getting better and better at their job. Do yourself a favour and go out and buy yourself a few seedlings. One should do this at least four times a year! Remember, tomorrow's champions will come from these little seedlings!

The most important job for the cymbidium grower now is to keep the spikes growing up nice and straight. Keep the snails away with a few snail pellets in each pot. Watch your watering. Keep plants just damp – not wet, during winter. Water only in the morning on sunny days. Fertilise weekly with PETERS EXCEL Hi K or HSO 12 or MERRI FERT is also ideal during the flowering months. Don't forget flowering plants need calcium. A monthly application of BIO-MIN CALCIUM helps to give the flowers good texture and the racemes a bit of body. Agro Bests AGRODEX K35 (KDL) is a handy nutrient supplement if you find that your flowers lack depth of colour or size. It has 35% available potassium. Use as a foliar spray. **DO NOT APPLY IN THE HEAT OF THE DAY.** Early morning or late in the day are the best times. According to the manufacturer, their recommendation is four to 6 mls per litre of water. I feel two or three mls per litre of water every seven to ten days as a foliar application should be sufficient. **NOTE:** This product is now called AGRODEX K35. As stocks run out this will be its new name.

Watch for aphids. If present spray with CONFIDOR®. It seems to do a good job without marking flowers.

Now is the time to start thinking about mixing up your compost in readiness for the oncoming potting season. It is good to let the brew mature to get all the friendly fungi moving and to have the wood residual in the mix treated for nitrogen draw down, and most important to get rid of the nasty toxins that can lurk in the mix. As most people use bark as the main component of the mix, some added nitrogen will be extremely beneficial. Don't forget to check the pH of the mix. If too low don't forget to treat with lime and dolomite. For orchids to the pH use dolomite 2 parts to lime 1 part by weight (not volume). This gives you a 3:1 Ca, Mg ratio. One gram of this mix to 1 litre of mix, will raise the pH one half unit.

Some growers use the following formula to treat their bark. To each cubic metre of bark add the following:

- 2.5kg Urea;
- 1.0kg Superfine super phosphate;
- 0.5kg Iron sulphate.

Moisten heap after mixing. Turn heap over after three weeks – moisten. After six weeks check pH and adjust as calculated in the last paragraph.

Mix well, check pH next week. If OK it is ready to use. Some growers like to use a C.R.F. with a nine month release with an N-P-K of 18 + 2.6 + 10 + T.E. (trace elements).

If possible MICROMAX® is a very good slow release trace element mix that is mixed in the potting media for use with cymbidiums. **DO NOT USE ABOVE RECOMMENDED RATES AS READ ON CONTAINER** (rate for potting mix i.e. for cymbidiums is 1kg per cubic metre of mix). Mix in just before using with the C.R.F. ■

Paphiopedilum

Routine culture during late winter is much the same as for the previous few months. Plants should be watered only when moderately dry and given some weak Aquasol immediately after every third or fourth watering. Watch the weather – the westerly winds which characterise this time of year can dry plants out quite quickly. Watering is best done during early morning.

Paphiopedilums benefit greatly from annual repotting. The slight shock of repotting encourages the growth of a new crop of roots which may otherwise not appear. The best time for repotting is from mid-September until late November.

The potting mix should be prepared a few weeks before use; this allows the bark to begin

breaking down – a condition which your paphs. will appreciate.

Whilst paphs. can be grown successfully in a variety of materials, I have had best results using mixtures based on bark. A very good mixture consists of the following:

Pine bark (approx. 5-10mm)	80%
Charcoal (approx. 5-10mm)	20%
Add to this:	
Sel Grit (granular limestone) or bird grade shell grit.....	2%
Hoof & Horn Meal (or, at a pinch, Blood & Bone)	1%

Wet the bark and charcoal with normal strength Aquasol, add the other ingredients and mix thoroughly. The mixture should be kept damp (use water for here on) until ready for use and must be used fairly wet. If you cannot store the mixture in an area free from earthworms and other vermin, it may be better stored in open plastic bags. If available, about 10% coarse river gravel can be added; the weight of this helps prevent the pots from tipping over.

If you have only a few plants, or all this sounds like too much trouble, your local orchid nursery may be able to supply a similar mixture. When buying potting mixtures always make sure they do contain plenty of nitrogenous fertiliser (have a good sniff) as bark alone contains very little that the plants can feed on.

Squat plastic pots are the most suitable for Paphiopedilums, particularly those with domed bottoms and plenty of drainage holes – not only for drainage but for aeration. A pot should be chosen which will comfortably hold the roots.

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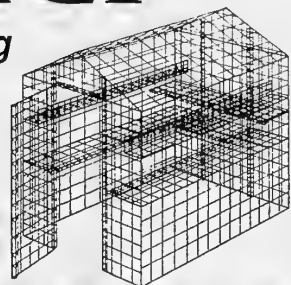
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CULTURAL NOTES

The plant should be potted firmly with its base about 12mm below the surface. If the plant is wobbly, stake it. Do not use Osmocote or the like on Paphiopedilums.

When dividing Paphiopedilums I always try to leave two flowered growths plus whatever newer growths are ahead of these. The older flowered growth can be "back cut" and left in the pot during January.

Newly potted plants are simply placed on the bench and watered and fertilised as before. The plants do not need to be widely spaced. Incidentally, open benching (say 3 x 1 Weld-mesh) is far preferable and gives much better results than the solid benching once favoured.

Phalaenopsis

Watch the watering during the winter period. During this period of time, plants can dry out quickly and with a heater going the humidity will drop. On warm sunny days you could dampen the floor in the hothouse with water to help raise the humidity. You may have to water your plants every four to five days. One could drench the plants every five to six days and in between give the floor a drench and the plants a misting.

Keep the vents open on good sunny days. Air exchange is important. Fertilise weekly with a good general purpose fertiliser such as PETERS GENERAL PURPOSE. This will keep the flower spikes moving at this time of year. If you don't, you will get short spikes with a low flower count.

Watch for the BROAD MITE under the leaves. In the old days, one would use endosul-

fan with excellent results, but now it is unavailable to the hobbyist, (very toxic). Now, most growers of *Phalaenopsis* would be using KELTHANE® or ECO OIL®. So be aware, once spring arrives they will be around.

Vandaceous

Watering:- Water well in the mornings every 2 or 3 days. Avoid watering on cold or bleak days. Root systems should be kept moist and may require misting on dry, windy days particularly if hanging on wires only or potted in bare baskets or pots.

Light:- Strap leaf vandas and ascocendas need 50% shade. Outside vandas need very little cover at this time of year.

Fertiliser:- Fertilise once per fortnight during August using a low nitrogen fertiliser.

Increase to weekly during September, changing to a high nitrogen fertiliser and alternating over a 4 weekly period:-

Wk 1 Inorganic high nitrogen - Campbells B, Aqua-feed or Aquasol.

Wk 2 Foliar/Trace elements - Wuxall.

Wk 3 Inorganic high nitrogen - as for week 1.

Wk. 4. Organic - Fish emulsion or Nitrosol.

Pest Control:- Continue to fungicide every 6 weeks. (e.g. Daconil, Mancozeb, Wettable Sulphur or Ridomil MZ WP).

Spray with Diazanone, Malathion or Pyrethrum if signs of insect damage or scale.

Watch for mites and treat as necessary.

If you use Wettable Sulphur as a fungicide it is also a good miticide.

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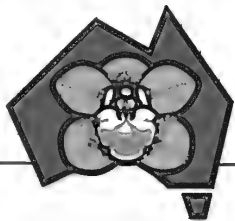
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Cymbidiums Australia

PRESENTED BY THE AUSTRALIAN CYMBIDIUM SOCIETY INC.

Editor's Report

As you read this issue the 2007 National Cymbidium Show will only be a few weeks away and while the lead up to this year's show was less than ideal we're sure it will live up to previous shows in terms of the number and quality of flowers displayed. With exhibitors and or sellers from all member states. NSW, SA, WA and Victoria the National Cymbidium Show will once again be the premier *Cymbidium* event of the season.

On the subject of the national show, someone asked recently why there were so many *Cymbidium* classes. They'd seen or heard a comment somewhere stating the number of classes were unnecessary. Of course half the classes in a national show schedule are for cut stems and duplicate those for flowering plants. Due to the distances travelled across the country and the restrictions on transporting potted plants because of varying state quarantine laws it is impossible for every one to bring plants in flower. Also the ACS and state member clubs believe that the national shows should not be just a pale imitation of multi-genera shows, but with the other genera left out. Classes are more expansive to better represent the variety of modern cymbidiums and particularly to recognise seedlings, the possible champions of tomorrow and the future of *Cymbidium* development. If specialist *Cymbidium* clubs don't meet the challenge to better recognise and promote cymbidiums who will?

In this issue Loren Batchman of Solana Beach, California provides us with an article on his hybrid *Cym. Everett Stockstill*, an outstanding spotted *Cymbidium* cross. Loren has spent the last twenty years breeding high coloured and spotted cymbidiums

and has many outstanding hybrids to his name. We thank Loren for taking the time from his busy nursery to pen this piece for us.

Noe Smith continues her series aimed primarily at newer growers with an overview of some of the *Cymbidium* species commonly available. All of the species featured will grow under "normal" *Cymbidium* cultural conditions and are ideal for those wishing to try their hand with a few species.

Cymbidium suave is far from the easiest species cymbidium to grow successfully so we hope the information provided on growing this unique species in this issue will give a starting point and some useful tips for anyone wishing to grow *Cym. suave*, or who is having trouble with plants they already own. Hopefully the experiences described and advice given will help anyone succeed with *Cym. suave*.

The ACS and COSV provide us with all the details of the 2007 National Cymbidium Show schedule ready for next months show and features recognition of this years sponsors who's support makes the staging of a major National Cymbidium Show a possibility. Most of the sponsors listed have supported the National Cymbidium Show for many years, or even since its inception and the ACS and all member states are grateful for their ongoing commitment.

Carolyn Allen brings us a feature on a *Cymbidium* which gives a whole new meaning to the term specimen orchid, describing how two old mates came to make the crossing and how one of the plants made its way to the growers who produced the breathtaking display featured.

We hope you all have a great flowering season, good growing and good health. ■

Your editors



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Rosebud, Vic 3939

Tel/Fax: (03) 5986 1121

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aussiecym@internode.on.net

Rob Smith



HOW TO JOIN A CYMBIDIUM CLUB IN YOUR STATE

CYMBIDIUM CLUB OF AUSTRALIA INC.

Meetings are held on the 2nd Thursday of each month (except December, January and February)

Meetings commence 8.00 p.m.
Venue: Lakemba Chapter Remembrance Hall,
220 Lakemba Street, Lakemba,
Sydney, N.S.W.

For further details contact
Secretary, Peter Moore,
10 Stephanie Street,
Padstow, N.S.W. 2211
Phone: (02) 9721 0572
President, Geoff LeMarne,
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Web: www.ccansw.com.au

CYMBIDIUM ORCHID CLUB OF SOUTH AUSTRALIA INC.

Meetings are held on the 4th Wednesday of each month (except December and January)

Auditorium open from 7.00 p.m. —
Beginners' Group commences 7.20 p.m.
Main Meeting commences 8.00 p.m.
Venue: Burnside Community Centre,
401 Greenhill Road, Tasmore, Adelaide, S.A.

For further details contact
Secretary, Jeanne Hall,
18 Coorilla Avenue, Glenelg North, S.A. 5045
Phone: (08) 8294 5562
President, Ray Brady,
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THE CYMBIDIUM ORCHID CLUB OF WESTERN AUSTRALIA INC.

Meetings are held on the 3rd Monday of each month (except January and February)

Benching of plants commences 7.15 p.m.
Popular Vote commences 7.50 p.m.
Main Meeting commences 8.00 p.m.
Venue: Belmont Sports & Recreation Club,
Abernethy Road, Belmont, W.A.

For further details contact
Secretary, Alice Lang,
20 Urch Road, Kalamunda, WA 6076
Phone/Fax: (08) 9257 1056
President, Courtney Rogasch
Phone: 0407 049 717

THE CYMBIDIUM ORCHID SOCIETY OF VICTORIA INC.

Meetings are held on 2nd Tuesday of each month (except January)

Popular Vote commences 7.50 p.m. —
Main Meeting commences 8.00 p.m.
Venue: Mt. Waverley Youth Centre,
Millers Crescent, Mt. Waverley, Victoria.

For further details contact
Secretary, Jennifer Robertson,
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Tall, strong stems with essentially upright habit are preferred and the stem should have a good length before the first flower is reached. Colours and markings should be clear and defined.

NB: This is a Notifiable Class it is separate from the rest of the ACS Show Schedule.

The Fleurijn Orchids-Holland Award will be judged by the sponsor or his nominee.

Large Flower seedlings from classes 6, 9 & 16 will automatically be entered in the Fleurijn Orchids-Holland Award.

All Champion Sashes & Ribbons to the Value of \$500 sponsored by Collectors Corner – Orchid World

The Australian Cymbidium Society Inc. and the Cymbidium Orchid Society of Victoria extend their thanks and appreciation to all sponsors for their generous support of the National Cymbidium Show and the Australian Cymbidium Orchid Festival.



Cym. Robin 'Freckles', both tetraploid (4n) and diploid (2n) forms.

Cymbidium Everett Stockstill – a milestone in Spotted Standard *Cymbidium* Hybridising

Text and photos by Loren Batchman

Few flowers excite the seasoned *Cymbidium* grower as do the “new” spotted cymbidiums. I say new with tongue in cheek, since some of the *Cymbidium* species have cultivars with varying degrees of spotting or veining on the sepals and petals, and these have always been popular with the amateur

growers. The early *Cymbidium* hybridisers tended away from spotted flowers, focusing instead on the clear colours more suitable for the fledgling cut flower industry. Those plants with any significant spotting were usually discarded as unsuitable for cut flower use. In any case, significant spotting on the flowers was relatively

uncommon as few of the early parents produced much in the way of spotted flowers.

Only two commonly used standard species appear to have any significant spotting on the sepals and petals – *Cym. tracyanum*, and some cultivars of *Cym. insigne*. Spotted cymbidiums occasionally appear as a single cultivar of a grex, and



Cym. Solana Beach 'St. Francis', 2n and 4n forms.

this has happened in a number of crosses. The grex usually has both a significant amount of *Cym. insigne* as well as a dash of *Cym. tracyanum* in the background. In these cases, a rare chance combination of genetics likely results in a spotted flower or a plant that subsequently breeds spotted offspring. It is usually not the intent of the hybridiser but a rare gift of chance genetics. Such chance occurrences have given us many of the important spotted parents in use today.

One very important spotted parent is *Cym. Solana Beach* (Rincon x Atlantes), with only *Cym. insigne* in the background. Only one cultivar of *Cym. Solana Beach* has been used as a common parent,

that being the cultivar 'St. Francis' AM/AOS B/CSA, and it has been used in both a diploid and a tetraploid form. The ploidy of the awarded cultivars is not listed in the award data, but based on the flower measurements and number of flowers on the spike, it would seem that the B/CSA was awarded to the tetraploid form and the AM/AOS was awarded to the diploid form. *Cym. Solana Beach* 'St. Francis' is not what one would usually consider a spotted flower, but it does have a few dark spots along the midrib of the petals, and this is a characteristic that is passed on in a large number of its hybrids. It has been used as a parent in a large number of hybrids since it tends to pro-

duce large, full flowers of exhibition quality, not because it can produce spotted offspring. Many hybrids made with *Cym. Solana Beach* have produced an occasional spotted offspring where the spotting appears over the entire petals and to a lesser extent the sepals, not just the typical spotting along the petal midrib. The great popularity of it as a parent has resulted in several crosses with some spotted offspring, even with other parents that do not normally produce spots. In general, it is more likely to produce spotted offspring when used with another spotted parent, but usually only a small percentage are well spotted.

Another important spotted parent, *Cym.*



Cym. Everett Stockstill

Robin 'Freckles' (Khyber Pass x Doris Aurea), has produced a number of spotted offspring, both as a diploid and a tetraploid. This particular cultivar is a bit of an oddity, being the one green flower in an otherwise red grex, with some spotting

on the sepals and petals. It does have a bit of *Cym. tracyanum* in its background as well as a liberal amount of *Cym. insignis*. Originally a diploid, the plant was converted to a tetraploid and awarded both an HCC/AOS and B/CSA in the tetraploid

form and an HCC/AOS and AD/CSA in the diploid form. Both the diploid and the tetraploid have been used in several spotted crosses, and have produced some striking offspring.

The cross between *Cym.* Solana Beach

Cym. Everett Stockstill 'Bulai' HCC/AOS, Bronze/CSA





Cym. Everett Stockstill 'Makule Moment' HCC/AOS, Bronze/CSA

'St. Francis' 4N and *Cym.* Robin 'Freckles' 4N was made in February, 1997 with hope that the crossing would produce some nicely spotted cultivars. The cross was made with *Cym.* Solana Beach holding the pod. The cross first flowered in

January 2003, with a number of striking spotted cultivars, and nearly half of the cross was significantly spotted, unlike the low percentage of most previous spotted crosses. The cross was named *Cym.* Everett Stockstill to honour the founder of

the Torrance Branch of the CSA.

Twelve first flowering seedlings of the cross were grouped together in a display in the 2003 Fascination of Orchids show in early February, 2003 in Costa Mesa, California, and four of the plants received

Cym. Everett Stockstill 'Purple Hapa' HCC/AOS, Bronze/CSA





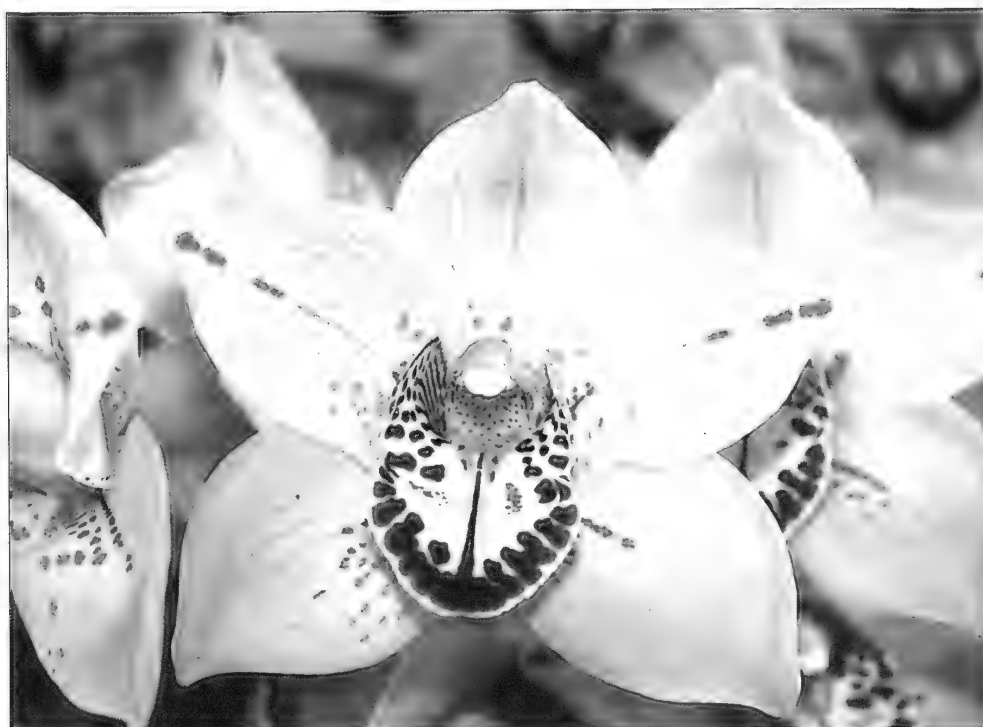
Cym. Everett Stockstill 'Shocking'

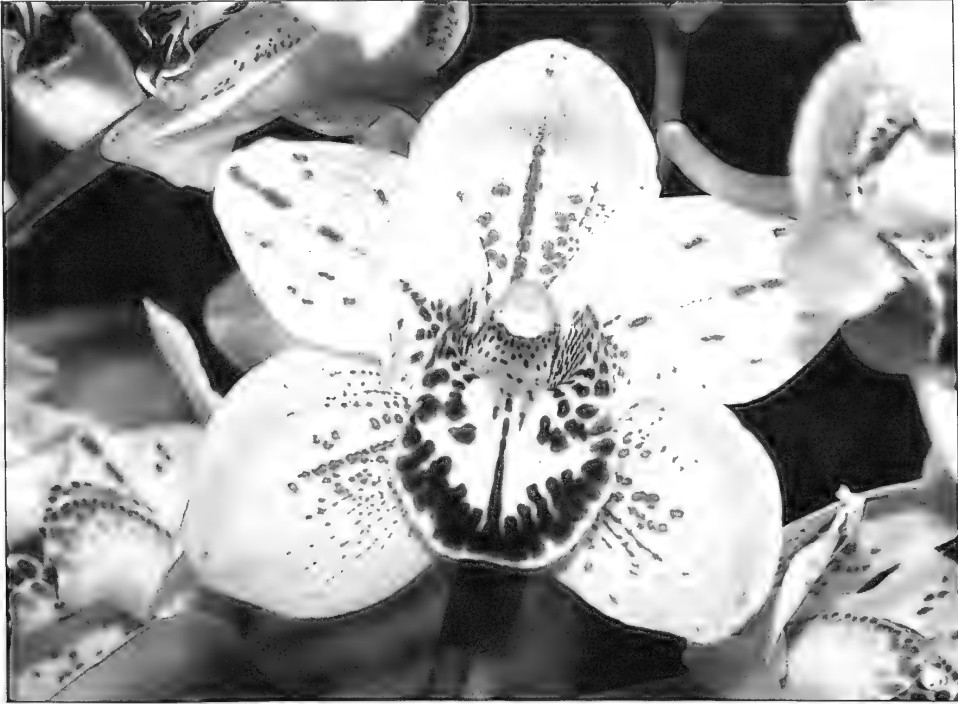
AOS and CSA quality awards including an AM/AOS, two HCC/AOS, a Silver/CSA and two Bronze/CSA awards, along with the coveted AQ/AOS (Award of Quality given to the cross). To date, about ten cultivars have been awarded

from this cross. The colour of the offspring has been the biggest problem, in my opinion, with most being a creamy yellow with a good amount of burgundy spotting, and bold dark lips. Even with the weak colour, they are striking flowers.

None have been green, and only one has had a good white or pink background colour, but at least half the cross have been nicely spotted. Perhaps the best is the cultivar 'Violet' S/CSA HCC/AOS with a pastel pink and green background,

Cym. Everett Stockstill 'Showoff' AM/AOS





Cym. Everett Stockstill 'Violet' HCC/AOS, Silver/CSA

good spotting and a distinctive bold, dark lip.

One could hope that some of these would also prove to be good spotted parents, but that remains to be seen. The crosses we have tried using cultivars of

Cym. Everett Stockstill with other well spotted tetraploid flowers have produced little seed with spotty germination, not at all what I would have expected in tetraploid breeding. Still, the general success with the cross leads one to anticipate

the potential for even more striking spotted flowers, even with a limited number of offspring.

Loren Batchman

Solana Beach, California, USA

batch@Orquideas.com

Cym. Everett Stockstill 'Mariposa'



Mine is Bigger than Yours

by Carolin Allen

A few weeks ago I got a phone call from a *Cymbidium* friend, John Hedger, telling me that David and I should get ourselves down to Andy and Jan Leamon's nursery to have a look at a *Cymbidium* that was out in flower. He said it was huge and could be around 8ft in diameter with just too many spikes to count.

The plant in question is *Cym. dayanum* x *Cym. erythrostylum* which was registered 23/6/2003 and is now *Cym. Osborn*, we understand that the plant is named after Malcolm Osborn of SA.

We arrived at Jan and Andy's armed with the digital camera, but before we got to the plant we had a wander around and were shown their new cut stem set-up, (maybe a story for a future issue) but for now back to that huge plant.

Well! John was certainly right, the plant was huge. Jan said it had been hanging up, until one morning they came down and the chains supporting it had giving way and it fell into a batch of plants underneath.

The plant was now sitting in a metal



Jan and Andy Leamon hold the backdrop behind their *Cym. Osborn*

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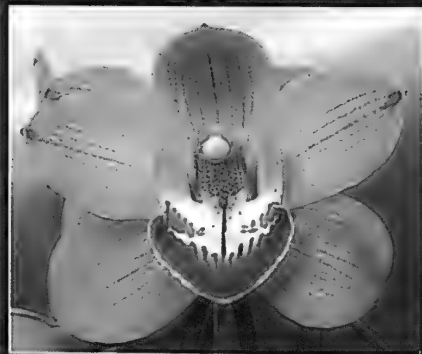
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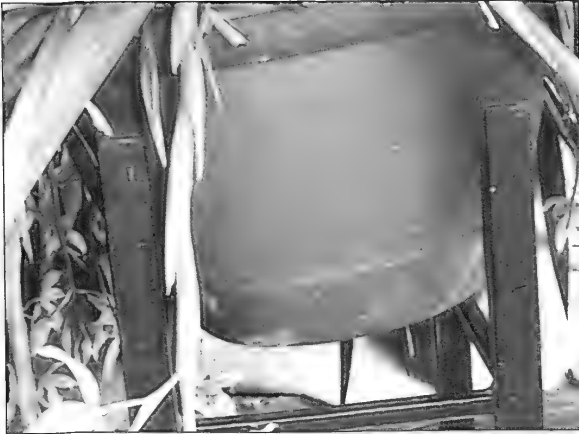
stool frame. Andy had taken the wooden seat off an old stool and used the steel frame to sit the pot in. To stop it falling over he had bolted it to the bench. This huge plant was growing in a 10inch water well pot, and that is the truth, only a 10inch pot, as the accompanying photograph shows.

There were over 200 arching spikes of soft pink blooms open with still more yet to open up and Jan had already cut some spikes off in order to clean the plant up. I tried to count just the spikes on half of the plant but gave up, so tried counting spikes on just a quarter of it, then averaged it out to get an approximate number of racemes.

We then got out the builders tape measure, width of the plant is 1.5 meters and the height is 1.5 metres from the bottom of the bench. John was not far out in his estimate.

Jan bought the plant from the trading bench at the SA National Show back in 1999 for \$10, at the time it consisted of just 3 back bulbs, 1 green bulb and a spike. It really sulked for quite a long time. Jan said if it had have been any other plant it would have been thrown out long ago.

I rang Malcolm Osborn up to get a bit of history on the crossing. At the time it was made he had a nice plant of *Cym. erythrostylum* in flower and Dean Roesler had a good *Cym. dayanum* out, so they played around with some pollen doing the cross both ways. They got a good viable pod and



Above: The 10 inch water well pot holding this monster

Top right: A close up of the flowers on this pretty and primitive primary hybrid



Dean did the flasking. When the plants were ready they went halves in the flasks. Malcolm said that the plant that Jan and Andy got would have come from Dean as he did not have any to sell until some years later.

In 2003 we had a COSV judges workshop at Jan and Andy's and the plant in question was then given a HCC certificate on the day. Unfortunately the plant on this flowering was far too big to be transported to our club meeting, which was a pity as our members would have enjoyed seeing it. Those of us who did get to see the plant were in awe of the size of it.

Jan really wanted to get it to the June COSV monthly meeting, but Andy would probably have put his back out trying to get this plant in the back of their van. We thought about asking Tee Pee (Terry Poulton) to get it to the monthly meeting using his forklift to load and unload the plant, but decided that would be going too far!

We reckon well done Jan and Andy and wonder if anyone can top this in terms of plant size? If you think you can, send in your article, we would love to see and read about any other big ones!

*Carolyn Allen,
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Cymbidium erythraeum

Beginning with *Cymbidium* Species

Text by Noe Smith

For many orchid growers species orchids hold a special attraction, no less so when it comes to species cymbidiums. There is a special attraction to species cymbidiums and although they don't appeal to everyone, many growers appreciate their natural beauty, varied flower forms and the variety of size, habit and flowering times. From the species *Cym. dayanum* and *erythrostylum* which flower in early to mid autumn, through to *Cymbidium suave*, *madidum* and *canaliculatum* which flower through late spring to early summer, species cymbidiums can reward their growers with flowers for almost the whole year. The majority of *Cymbidium* species need little if any special treatment above what would be provided for any *Cymbidium* hybrid and most species are readily available with a little searching and patience. While most may not feature in orchid nursery catalogues, they are often available from other species collectors among *Cymbidium* club members and divisions, mericlones and seedlings do come up from time to time.

It is not my intention to attempt the

definitive work on *Cymbidium* species in this article, (it would take much more space than several issues would allow and anyway there are several outstanding books and web sites which provide much more information than I could) rather to provide enough information to dispel any doubts a new grower of *Cymbidium* species may have about giving them a try and to describe some of the more commonly available and easily grown species.

Many of the most commonly available *Cymbidium* species originate from highland areas in India, (Sikkim, Assam, Khasia Hills), Nepal, Burma, Northern Thailand, Vietnam and Southern China, at altitudes ranging from 400 to 3000 metres above sea level. At these altitudes the climate range is generally moist temperate. While some *Cymbidium* species do grow in natural habitats closer to sub tropical we will not be discussing those in this article.

For anyone contemplating adding *Cymbidium* species to their collection there are a number of species which provide an ideal starting point due to their general availability and or the fact that

they are no more demanding culturally than *Cymbidium* hybrids. The species described in the following paragraphs are some of those.

Cymbidium tracyanum is one species commonly available and is usually seen on club benches in April or May depending on which state you live in. Arguably, the most distinctive of the species, *Cym. tracyanum* is easily recognised by it's twisted petals and sepals and it's distinctive spotted and striped patterning.

Flowers are generally cream to greenish heavily overlaid with redish brown to dark red and it's labellum is white spotted with purple/red. *Cym. tracyanum* is a large growing plant with long arching spikes carrying fifteen or so large flowers. Specimen sized plants with multiple spikes can look quite stunning. Beware of an old primary hybrid which is still quite common and is often incorrectly labelled as *Cym. tracyanum*. It flowers in August to September and has more pinkish coloured flowers. Although the flowers resemble *Cym. tracyanum* in shape it is not *Cym. tracyanum*. Culturally, *Cym. tracyanum*

Right: *Cymbidium parishii* 'Emma Menenger', commonly believed to be a tetraploid form

will grow and flower under the same conditions which suit *Cymbidium* hybrids.

Cymbidium lowianum, a personal favourite and a cornerstone for many early hybrids. The striking red vee on *Cym. lowianum*'s labellum can still be clearly seen in the labellums of many of today's hybrids. *Cym. lowianum* is a moderate sized plant which carries arching spikes of largish flowers of around fifteen to eighteen in number. There are three colour forms of *Cym. lowianum*, the type form having green petals and sepals often with a bronzy overlay, the labellum is white with a bold red vee. There is also an album form where the flowers are clean apple green and the white labellum has a yellow vee.



The third form, originally known as *Cym. l'ansonii*, is coloured mid way between the other two, it's labellum carrying the same pattern, but coloured an orangey yellow. Like *Cym. tracyanum*, *lowianum* grows under the same conditions as most *Cymbidium* hybrids.

Cymbidium insigne comes in two forms, the type form produces pink blooms with white labellums spotted purple/red, the other form is an album variant which produces pure white blooms with no purple pigment in the petals, sepals, or labellum. Flowers are large and more than twenty or so are carried on very tall and thin, but surprisingly strong spikes.

Cymbidium parishii is another moderately large growing plant with long arching flower spikes. It's flowers are of medium size, perhaps 75 to 80 mm across. Flower colour is white, set off by heavy dark red blotching on its white labellums. There are several forms of *Cym. parishii* in circulation, though the colour is the same in all, flower form being the main difference between them. One particular clone named *Cym. parishii* var. Emma Menenger is described as being a tetraploid (4n) as opposed to the normal diploid (2n), its generally fuller and more shapely flowers being attributed to the doubling of chromosomes in the tetraploid form.

Cymbidium erythrostylum is a more compact growing plant than those mentioned so far, and correspondingly, its flower spikes are shorter though its flowers are quite large. *Cym. erythrostylum* has a very distinctive flower form with its forward pointing petals shielding a small

Left: *Cymbidium lowianum*, type form

Right: *Cymbidium erythrostylum*

labellum lined with red, its sepals are large and full shaped and a bit unruly looking petals and sepals are pristine white.

The overall effect is quite beautiful and due to its compact plant size an impressive specimen can be produced with many flower spikes in a 200mm pot.

Cymbidium iridioides, previously known as *Cym. giganteum*, produces long arching spikes with up to 20 scented blooms of up to 100mm across, the flowers are coloured from ginger brown to red and the white labellum has a yellow centre outlined by red blotches. While somewhat similar to *Cym. tracyanum*, it is neither as showy or as large and does not have the sinewy twisted petals and sepals of *Cym. tracyanum*, never the less it is an attractive species especially when the plant grows large enough to carry several flower spikes.

Cymbidium erythraeum, also known as *Cym. longifolium* has similarities to *Cym. tracyanum*, though it produces smaller flowers to around 80mm across. This species is particularly attractive in it's own right and can make a fine specimen plant capable of carrying many spikes and flowers. Flower form is similar to *Cym. tracyanum* and flower colour is more predominantly green with degrees of red/brown on the petals and sepals. The labellum is white with a red midline and a

Below: *Cymbidium dayanum*



Above: *Cymbidium dayanum*, produces floriferous specimen size plants

few scattered red spots at the edges making a highlight against the darker petals and sepals.

Cymbidium elegans is a most distinctive species due to its yellow bell like flowers. The flower segments are long and thin but because they remain pointing forward the flowers retain their long bell like appearance. The plant is quite compact with narrow leaves and the flower spikes grow up and then arch over with the weight of the flowers giving a cascading effect. Specimen plants can look quite stunning with spikes of up to 30 closely packed flowers cascading out from the foliage.

Cymbidium dayanum easily produces specimen plants and can produce several spikes from each bulb. The pendulous spikes are capable of carrying up to twenty flowers of around 40mm across. While the flowers are quite stary and taller than they are wide they are most attractive being coloured ivory white with broad red mid lines in petals and sepals. The labellum is almost totally red with a white centre bordered in yellow. *Cym. dayanum* is not a large growing plant and a specimen can easily be achieved in a 200mm pot.

Note: Two other species which are commonly available are the miniature species, *Cym. floribundum* and *devonianum* which have both been featured in recent issues.

Left: *Cymbidium tracyanum*





The diploid (2N) form of *Cymbidium parishii*

Cymbidium insigne var album



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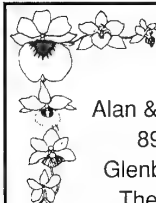
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Above: *Cymbidium iridioides*

Sources of information on *Cymbidium* species include, "*The Genus Cymbidium*", by David Du Puy and Philip Cribb,

"*Species Cymbidiums*" by Stephen Early, or his web site, www.geocities.com/cym-species

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Cym. suave growing on a Spotted Gum near Bermagui, NSW.

Growing *Cymbidium suave*

by David Allen and Noe and Rob Smith

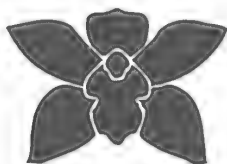
Cymbidium suave, one of the three unique Australian *Cymbidium* species, is possibly the most demanding for an orchid grower to maintain in culture. Some understanding of where and how *Cym. suave* grows in the wild will help understand its particular requirements.

Cymbidium suave is found growing on the east coast of Australia extending north from southern New South Wales at around latitude 35 to latitude 25 in Queensland, north of Brisbane. The climate range is from moist temperate to moist sub tropical. *Cymbidium suave* grows in holes and fissures in eucalypt trees with its root system extending down into rotting heart wood of trees either living or dead. It can also be found growing in cavities in fallen trees, or even in eucalypt fence posts and stumps of felled trees. The root system of established plants may extend down into the heart of trees for many metres and new plants will form from stolon growths along the root system where holes or fissures allow the plantlets to emerge. It is the very particular requirements in regard to its growing conditions which makes this species such a challenge for many growers. Hopefully, by providing the views and methods of several growers who successfully grow *Cym. suave* others will be able to maintain this unique and beautiful species as well.

Most growers agree that the specific conditions necessary for the species to grow in nature need to be replicated as closely as possible in culture if the plants are to survive for any length of time. Unlike many *Cymbidium* species and most hybrids, which only require a potting medium to provide a suitable degree of moisture retention and the addition of fertilisers etcetera to provide nutrients and an acceptable pH level, *Cym. suave* seems to have more specific requirements. Growing the plants in rotting eucalypt heart wood as found in nature is generally reported as producing better results than the use of a typical

Cymbidium medium. With pH levels being recorded at between 4 and 4.5 in nature and in tests on this medium in culture, it may well be that pH is a critical factor in the successful maintenance of *Cym. suave*. While the pH level of other forms of potting media could be adjusted to replicate those found in rotting eucalypt heart wood it may well be that *Cym. suave* also obtains required nutrients from the process of decomposition and those nutrients, in a particular balance, as produced in the process, may be critical to the plants growth.

Many growers also believe that the conditions in nature provide a degree of insu-



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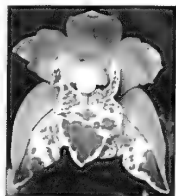


A small plant of *Cym. suave* growing in a section of log. Note, root development has opened up a large gap where the log was cracked.



Close up of new growths developing from the root system.

lation to the plants root system and a control of moisture levels necessary to the plants health. As a result many growers either grow *Cym. suave* in lengths of eucalypt with rotting hearts, or find sections of suitable hollow logs and fill them with rotting heart wood and plant *Cym. suave* in those. Other containers such as lengths of clay sewerage pipes have also been used with reports of good results when filled with rotting eucalypt heart wood. Some growers believe that the extra depth provided by length of pipe, or logs provides the sort of root run *Cym. suave* prefers. Larger, well established plants will also grow happily in the same medium when potted in large "normal" *Cymbidium* pots, but not for very many years before needing to be repotted. As *Cym. suave* resents being disturbed, most growers try to avoid re-potting unless absolutely necessary.



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Above: A section of hollow log selected for a plant of *Cym. suave*.

Inset: Plastic mesh fixed to the bottom of the hollow log to hold in potting mix and allow drainage.

Our (Noe and Rob) own experiences with *Cym. suave* over some fifteen years has seen us grow (or attempt to grow) this species in a variety of mixes and containers. Mixes have ranged from traditional *Cymbidium* mixes made up of pine bark with various other materials added such as canunda shell, marble chips, rice hulls or coir in combinations, to similar mixes with proportions of eucalypt chips, or rotting eucalypt added and rotting eucalypt alone. Certainly the use of rotting eucalypt alone, or in fairly high proportions within a mix has provided the best results under our climatic and cultural conditions.

Although our plants of *Cym. suave* grow in the same orchid houses as our other cymbidiums and are watered at the same rate and frequency, they receive less fertiliser and what they do receive is always a balanced type, rather than a high nitrogen type as commonly used for cymbidiums for at least part of the year. We do not add slow release type fertilisers to the mix for *Cym. suave* and only fertilise at about one quarter strength or weaker. Tests on rotting eucalypt heart wood in our pots of vigorously growing plants of *Cym. suave* have given pH results of around 4.5 and we try to keep the pH at that level as the plants seem to be happy with it.



A plant of *Cym. suave* which has been growing in the same split log for several years.



Nice form of *Cym. suave*.

We wouldn't be surprised if the pH factor isn't more important than the actual medium and perhaps someone reading this article who has done tests with *Cym. suave* will be able to share their experiences with us all. To date we haven't done any tests along these lines, mainly because we don't want to kill any plants. *Cym. suave* can be very difficult to re-establish once the plants begin to go backwards, especially if they loose their root systems.

David Allen describes his experiences growing *Cym. suave* as follows.

I decided to grow a couple of plants of *Cym. suave* about five years ago and have found the plants to be quite hardy, they grow, flower and thrive under the conditions I have provided for them.

After a little research I found that the natural habitat of *Cym. suave* covers a wide region from southern NSW (almost to the Victorian border) to Cairns in northern Queensland. While this species can be found growing on a number of hosts, it seems to establish and grow best when its roots can penetrate rotting heartwood in live eucalypt trees, where it will form large clumps.

Cymbidium suave produces a large number of roots which will travel long distances into the rotting wood. In order to reproduce this sort of environment under culture I have planted my *Cym. suaves* in old hollow eucalypt logs. I use a potting mix of 50% composted pine bark and 50% rotten eucalypt heartwood, to every litre of this mix I add one cup of charcoal.

The plants are grown in my main growing shade house, under 50% shade cloth, along with the rest of my *Cymbidium* collection, they are placed in the brightest area of the house. I was told by an experienced

Cym. suave grower that these plants like a lower pH than other cymbidiums, somewhere in the 4.5 to 5 range. To achieve this level I water the plants once a week (in the growing season, but not in winter) with a solution of water and vinegar at the rate 10ml. of vinegar per litre of water. The plants are fertilised with crushed Dynamic Lifter pellets at the rate of one table spoon per plant at the beginning of spring and summer. My *Cym. suave* plants also receive the same liquid seeding as all of the other cymbidiums in the growing house.

The plants seem to be very hardy once established, but I make sure they get some protection against extreme weather conditions, such as frost in winter and hot northerly winds in summer. Given these conditions and culture the plants reward with excellent floral displays in late spring. I'm not quite sure what I will do once they out grow their existing logs, probably go forest hunting for some larger logs and pot them on, if that's the right word? ■



A large plant of *Cym. suave* growing in rotting eucalypt heart wood in a 12 inch plastic pot.

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September 29-30 –
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October 7 –
Hills District Orchids
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October 12-14 –
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December 2 –
Dark Star Orchids Open Day,
Northmead NSW

2008

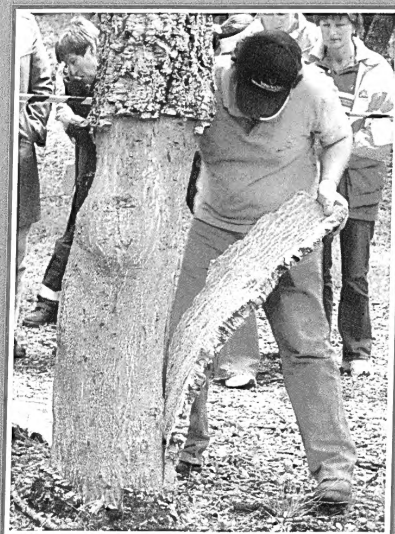
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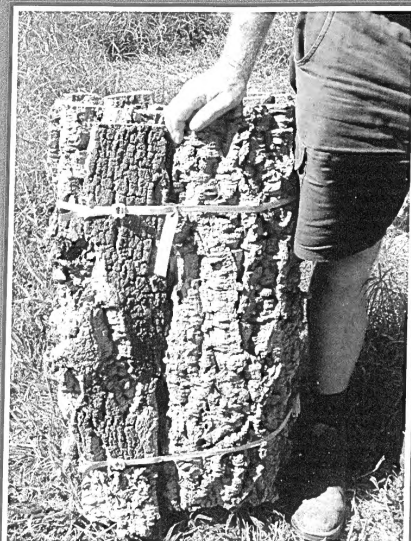
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